



OcNOS®

Open Compute Network Operating System Version 7.0.0

NetConf Command Reference

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Contents

Preface	119
Audience	119
Conventions	119
IP Infusion Product Release Version	119
Related Documentation	120
Feature Availability	120
Migration Guide	120
IP Maestro Support	120
Technical Support	120
Technical Sales	120
Technical Documentation	120
CHAPTER 1 NetConf Command Reference	122
IPI-MANAGEMENT-SERVER	122
Configure feature enabled	122
Configure port	122
Configure enable	123
Configure retry max attempts	124
Configure retry interval	124
Configure vrf name	125
Configure translation mode	125
Configure feature netconf ssh	126
Configure ssh port	126
Configure disable default ssh port	127
Configure feature netconf tls	128
Configure tls port	128
Configure netconf tls disable default instance	129
Configure netconf ssh disable default instance	129
Configure notification-cache feature-enabled	130
Configure max cache notifications	130
Configure cache period	130
Configure disable commit history	131
Configure bulk config cpu limit enabled	131
IPI-STREAMING-TELEMETRY	132
Configure config maximum subscribe paths	132
Configure config minimum sample interval	132
Configure feature enabled	133
Configure insecure tls	133
Configure non tls port	134
Configure retry interval	135
Configure name	135
Configure encoding	136

Configure sensor group	137
Configure group id	138
Configure sensor group id	139
Configure path	139
Configure vrf name	140
Configure destination port	141
Configure gnmi severity	142
Configure gnmi debug	142
Configure enable cpu limit	142
Configure cpu-monitoring enable-cpu-limit	143
Configure suppress threshold	143
Configure no-suppress-grps sensor-group-id	144
IPI-SAT	144
Configure rate pname	144
Configure two way	145
Configure color aware	145
Configure load step	146
Configure mode	146
Configure cir	147
Configure eir	148
Configure min rate	148
Configure acceptance pname	149
Configure cir frame loss ratio	150
Configure cir frame loss ratio policing	150
Configure cir frame delay variation range	151
Configure cir frame delay range	151
Configure size pname	152
Configure size h	152
Configure frame-size-profile size-h	153
Configure size u	153
Configure frame-size-profile size-u	154
Configure size a	154
Configure size b	154
Configure size c	155
Configure size d	155
Configure size e	156
Configure size f	156
Configure size g	157
Configure test name	157
Configure description	158
Configure direction	158
Configure stream run	159
Configure test type	159
Configure seconds	160
Configure hours	160
Configure minutes	161
Configure stream name	162

Configure stream description	163
Configure rate profile	163
Configure acceptance profile	164
Configure frame size profile	165
Configure frame sequence	165
Configure frame data pattern	166
Configure frame delay disable	167
Configure tag type	167
Configure frame payload	168
Configure dst mac	169
Configure source interface	170
Configure domain name	170
Configure data loopback	171
sat start NAME ((cir cir-eir policing performance all)) (service-stream NAME) ((repeat-last-fail-test new-test))	172
sat abort NAME ((cir cir-eir policing performance all)) (service-stream NAME)	172
sat clear NAME ((cir cir-eir policing performance all)) (service-stream NAME)	173
data-loopback start interface IFNAME timeout minutes <0-1440>	174
data-loopback abort interface IFNAME timeout minutes <0-1440>	174
IPI-EDPL	174
Configure name	174
Configure direction	175
Configure dst mac	175
Configure vlan id	176
Configure ip swap	176
Configure udp tcp port swap	177
Configure source udp port	177
Configure destination udp port	178
Configure ethertype	178
Configure address family	179
Configure src ip	179
Configure dst ip	180
Configure tests name	180
Configure source port	181
Configure profile	181
Configure hours	182
Configure minutes	182
Configure seconds	183
edpl (start stop) NAME	184
IPI-MANAGEMENT-SERVER-NOTIFICATION	184
Configure severity	184
IPI-VRF	185
Configure instance name	185
Configure instance type	186
Configure description	186
Configure tunnel select policy	187
Configure lsp encap dscp preserve	187

Configure router id	188
Configure evpn layer3 network id	189
Configure mtu	189
Configure snmp context name	190
clear router-id	190
clear router-id vrf (VRFNAME)	191
IPI-INTERFACE	191
Configure name	191
Configure enable switchport	192
Configure vrf name	192
Configure vr name	192
Configure mtu	193
Configure dot1ad ether type	193
Configure domain fastflush config	194
Configure bridge domain forward	194
Configure phy link training	195
Configure phy dfe	195
Configure phy unreliable los	195
Configure description	196
Configure shutdown	196
Configure if loopback	197
clear interface (IFNAME) counters	197
IPI-GLOBAL-TE	198
Configure id	198
Configure name	198
Configure srlg-maps id	199
IPI-IF-ETHERNET	199
Configure duplex mode	199
Configure secondary mac address	200
Configure port speed	200
Configure enable rcv	201
Configure enable rcv	202
Configure enable snd	202
IPI-IF-IP	203
Configure primary ip addr	203
Configure enable dhcp ip address	204
Configure ip addr label	204
Configure ipv4 unnumbered if name	205
Configure remote address	205
Configure primary anycast	206
Configure ip address	206
Configure ip label	207
Configure secondary anycast	208
Configure enable auto config	208
Configure ipv6 unnumbered if name	209
Configure enable dhcp ipv6 address	209
Configure enable dhcp temporary ipv6 address	210

Configure dhcp address prefix length	210
Configure ipv6 address	211
Configure anycast	212
Configure disable ip forwarding	212
Configure disable ipv6 forwarding	213
Configure router id	213
Configure enable auto router id selection	213
Configure default vrf enable icmp broadcast	214
Configure disable ip vrf forwarding	214
Configure disable ipv6 vrf forwarding	214
Configure enable icmp broadcast	215
IPI-IF-EXTENDED	215
Configure group index	215
Configure protected port	216
Configure name	217
Configure extended protected-port	217
Configure link flap error disable	218
Configure storm control error disable	218
Configure mac move limit error disable	219
Configure disable snmp trap link status	219
Configure mac move priority	220
Configure mau default type	220
Configure debounce time	221
Configure raon aodu port	221
Configure ucmp port	222
Configure revertive timer	222
Configure enable non revertive	223
Configure enable re routing	223
Configure enable speed	224
Configure enable queue drops	225
Configure enable pfc mon	225
Configure enable ecn mon	226
Configure warning threshold	226
Configure subif service queue	227
Configure aclif type	227
Configure encap default	228
Configure encap untagged	229
Configure vlan action	229
Configure push tpid	230
Configure rewrite translate action	231
Configure dot1q dot1ad tpid	232
Configure outer vlan id	233
Configure interfaces name	235
Configure enable pop	236
Configure vlan action	236
Configure disable egr pcp	237
Configure encapsulation type	238

Configure outer vlan id	238
Configure split horizon group	239
Configure linkup debounce time	240
Configure rate	241
Configure l2cp type	241
Configure forward err correction	242
Configure load interval	242
Configure bcast value	243
Configure bcast rate limit format	244
Configure mcast value	245
Configure mcast rate limit format	245
Configure dlf bcast value	246
Configure dlf bcast rate limit format	247
Configure global load-interval	248
Configure error disable stp bpdu guard	248
Configure reason	249
Configure link flap timer interval	249
Configure storm control timer interval	250
Configure error-disable reason	250
Configure error-disable error-disable-stp-bpdu-guard	251
Configure timeout interval	251
Configure mac move limit	252
Configure protocol process	252
Configure if type	253
Configure mode	253
Configure src	254
Configure multicast interface	254
Configure dst	255
Configure checksum enable	256
Configure tos byte	256
Configure ttl	257
Configure path mtu enable	257
Configure dst mac address	258
Configure gre key	258
Configure link scan timer	259
Configure snmp lower layer	259
Configure protocol type	259
clear interface (IFNAME) cpu counters	260
clear interface (IFNAME) fec	260
clear interface IFNAME error-disable	260
clear l2protocol interface (IFNAME) counters (peer tunnel discard tunnel-discard)	261
no sniff	261
IPI-IF-FLOWSPEC	262
Configure flowspec disable	262
IPI-SYNCE	262
Configure enable	262
Configure network option	263

Configure clock selection mode	263
Configure dpll3 select 10mhz in	264
Configure holdover timer	264
Configure name	265
Configure synchronous mode	265
Configure input source priority	266
Configure is output source	266
Configure wait to restore timer	267
Configure vlan id	267
Configure hold off timer	268
Configure quality level	268
Configure clock source id	269
Configure auto neg mode	269
Configure external synce interface	270
Configure external-interfaces external-synce-interface	270
Configure external-interfaces external-synce-interface	271
Configure external-interfaces external-synce-interface	271
Configure external-interfaces external-synce-interface	272
Configure external-interfaces external-synce-interface	272
Configure external-interfaces external-synce-interface	273
Configure external-interfaces external-synce-interface	273
Configure external-interface synchronous-mode	274
Configure external-interface input-source-priority	274
Configure external-interface wait-to-restore-timer	275
Configure external-interface hold-off-timer	275
Configure external-interface quality-level	276
Configure options	276
clear synce stats (interface IFNAME)	277
debug synce (event recvd trans all)	277
no debug synce (event recvd trans all)	277
IPI-SYSTEM	278
Configure hostname	278
Configure disable	278
Configure timezone name	278
IPI-NETWORK-SERVICES-MANAGER	279
Configure options	279
Configure pkt-mgr options	279
Configure module name	280
debug nsm ((addressmonitor bfd events hal events hal ipc linkmonitor packet packet detail packet recv packet recv detail packet send packet send detail vxlan ipsec mpls mpls sr ftn mpls sr ilm mpls ldp ftn mpls ldp ilm evpn mpls rsvp ftn mpls rsvp ilm all))	281
no debug nsm ((addressmonitor bfd events hal events hal ipc linkmonitor packet packet detail packet recv packet recv detail packet send packet send detail vxlan ipsec mpls mpls sr ftn mpls sr ilm mpls ldp ftn mpls ldp ilm evpn mpls rsvp ftn mpls rsvp ilm all))	281
debug hsl (general ifmgr bridge msg fib fdb devdrv pktdrv platform pbr bfd lcp qos helper rbridge nvo ofl mlag mpls srv6 ptp extphy) {all default info debug warn error fatal admin counter pkt}	282

no debug hsl (general ifmgr bridge msg fib fdb devdrv pktdrv platform pbr bfd lcp qos helper rbridge nvo off mlag mpls srv6 ptp extphy) {all default info debug warn error fatal admin counter pkt}	282
debug pktmgr (l2 protocol cfm l2 protocol eapol l2 protocol efm l2 protocol igmp-snoop l2 protocol lacp l2 protocol lldp l2 protocol mldp-snoop l2 protocol mstp l2 protocol ptp l2 protocol all)	283
no debug pktmgr	283
debug pktmgr enable	283
debug pktmgr disable	284
debug pktmgr stats	284
debug pktmgr (stats pkt-errors)	284
clear nsm ipc stats	284
clear nsm server ipc-stats	284
snmp restart nsm	285
debug nsm mpls dev	285
no debug nsm mpls dev	285
IPI-BRIDGE	285
Configure enable	285
Configure protocol	286
Configure instance name	286
Configure disable dynamic learning	287
Configure l2 protocol destination mac	288
Configure dot1ad encapsulation	288
Configure spanning tree protocol status	289
Configure disable mac learning	289
Configure interface name	290
clear mac address-table (multicast) cvlan VID svlan VID bridge <1-32>	291
clear mac address-table (multicast) (interface IFNAME) (address MACADDR) (vlan VID) bridge <1-32>	291
clear mac address-table dynamic cvlan VID svlan VID bridge <1-32>	292
clear mac address-table dynamic (interface IFNAME) (address MACADDR) (vlan VID) bridge <1-32>	293
clear mac address-table dynamic interface IFNAME instance INST bridge <1-32>	293
IPI-VLAN	294
Configure disable mac learning	294
Configure vlan id	294
Configure type	295
Configure instance name	296
Configure instance type	297
Configure secondary vlan	298
Configure mac address	299
Configure ipv4 address	300
Configure ether type	300
Configure group id	301
Configure port name	301
Configure disable vlan classifier feature	302
Configure disable port security	302
Configure vlan xlate 1	303

Configure table name	303
Configure svlan id	304
Configure cvlan id	305
Configure cos to queue	306
Configure untagged ep	307
IPI-PORT-VLAN	308
Configure isolated vlan id	308
Configure cvlan registration table	308
Configure interface mode	309
Configure name	310
Configure acceptable frame type	310
Configure switched-vlan acceptable-frame-type	311
Configure disable native vlan	312
Configure remove default vlan	312
Configure vlan id	313
Configure vlans vlan-id	313
Configure vlans vlan-id	314
Configure vlans vlan-id	315
Configure native vlan id	316
Configure translated svlan id	316
Configure original svlan id	317
Configure translated cvlan id	318
Configure svlan-translation translated-svlan-id	319
Configure cvlan id	320
Configure svlan id	321
Configure cvlan-svlan-translation translated-svlan-id	322
Configure cvlan-svlan-translation translated-svlan-id	323
Configure logging	324
Configure mode	324
Configure port-security mode	325
Configure maximum limit	325
Configure mac address	326
Configure vlan-mapping cvlan-id	327
Configure vlan-mapping svlan-id	327
Configure cvlan-svlan-mappings svlan-id	328
Configure private-vlan mode	329
Configure associate vlan id	329
Configure mapping vlan id	330
Configure association trunk vlan id	331
Configure instance name	332
Configure instance type	333
IPI-XSTP	334
Configure ageing time	334
Configure instance name	334
Configure enable cisco interoperability	335
Configure forwarding delay	336
Configure hello time	336

Configure max age	337
Configure max hops	338
Configure bridge priority	338
Configure transmit hold count	339
Configure enable bpdu filter	340
Configure enable bpdu guard	340
Configure enable error disable timeout	341
Configure force version	342
Configure path cost method	343
Configure bridge type	343
Configure disable spanning tree	344
Configure network-instances instance-name	345
Configure bridge forwarding	346
Configure enable shutdown	347
Configure network-instances instance-name	348
Configure region name	348
Configure revision number	349
Configure vlan id	350
Configure disable spanning tree	351
Configure name	351
Configure instance id	352
Configure network-instances instance-name	353
Configure instance type	354
Configure instance id	354
Configure mst-instance bridge-priority	355
Configure mst-instance bridge-priority	356
Configure interfaces name	357
Configure interfaces name	358
Configure interfaces name	359
Configure interfaces name	359
Configure path cost	360
Configure interface path-cost	361
Configure port priority	362
Configure interface port-priority	363
Configure port-bridge path-cost	364
Configure port-bridge port-priority	365
Configure interface hello-time	366
Configure port configuration	367
Configure enable automatic edge detection	367
Configure bpdu guard	368
Configure bpdu filter	368
Configure enable root guard	369
Configure link type	369
Configure enable restricted domain role	370
Configure enable restricted role	370
Configure enable restricted tcn	371
Configure enable instance restricted tcn	371

Configure mst-instance enable-instance-restricted-tcn	372
Configure enable instance restricted role	372
Configure mst-instance enable-instance-restricted-role	373
Configure customer-spanning-tree bridge-priority	374
Configure customer-spanning-tree max-age	374
Configure customer-spanning-tree hello-time	375
Configure forward delay	376
Configure customer-spanning-tree transmit-hold-count	376
Configure customer-edge path-cost	377
Configure customer-edge port-priority	378
Configure svlan id	378
Configure vlan port-priority	379
Configure options	380
debug (mstp protocol mstp protocol detail mstp timer mstp timer detail mstp packet tx mstp packet rx mstp cli mstp bpdu mstp mcec mstp all)	380
no debug (mstp protocol mstp protocol detail mstp timer mstp timer detail mstp packet tx mstp packet rx mstp cli mstp bpdu mstp mcec mstp all)	381
clear spanning-tree detected protocols bridge <1-32>	381
clear spanning-tree detected protocols interface INTERFACE	381
clear spanning-tree statistics (spbm <1-63>) bridge <1-32>	382
clear spanning-tree statistics interface IFNAME vlan <2-4094> bridge <1-32>	382
clear spanning-tree statistics interface IFNAME bridge <1-32>	382
clear spanning-tree statistics bridge <1-32>	383
clear spanning-tree statistics vlan <2-4094> bridge <1-32>	383
clear spanning-tree statistics interface IFNAME (spbm <1-63>) bridge <1-32>	384
snmp restart mstp	384
IPI-IF-AGGREGATE	384
Configure aggregate id	384
Configure lacp mode	385
Configure weight	386
Configure min links	386
Configure min bandwidth	387
IPI-LACP	387
Configure system priority	387
Configure options	388
Configure port priority	388
Configure timeout	389
Configure bridge type	389
Configure force up	390
Configure agg force up	391
snmp restart lacp	391
clear lacp (<1-65535>) counters	391
debug lacp (event cli timer packet rx tx sync ha all)	392
no debug lacp (event cli timer packet rx tx sync ha all)	392
IPI-LLDPV2	392
Configure enable	392
Configure enable tx rx only	393

Configure notification interval	393
Configure port description	393
Configure system description	394
Configure system name	394
Configure system capabilities	395
Configure management address	395
Configure port vlan id	396
Configure port protocol vlan id	396
Configure vlan name	397
Configure protocol identifier	397
Configure vid digest	398
Configure management vlan id	398
Configure link aggregation	398
Configure mac phy	399
Configure max mtu size	399
Configure locally assigned chassis id	400
Configure reinit delay	400
Configure message tx interval	401
Configure message tx hold multiplier	401
Configure message fast tx	402
Configure tx credit max	402
Configure tx fast init	403
Configure neighbor timer	403
Configure port timer	404
Configure port address	405
Configure chassis id	405
Configure port id	406
Configure options	406
Configure disable lldp agent	406
Configure agent circuit id	407
Configure med device type	407
Configure local name	408
Configure agent type	408
Configure enable tx rx	409
Configure disable tx rx	410
Configure name	410
Configure transmit message-tx-interval	411
Configure transmit message-tx-hold-multiplier	412
Configure transmit message-fast-tx	412
Configure transmit tx-credit-max	413
Configure transmit tx-fast-init	414
Configure neighbor limit	415
Configure port mac	416
Configure agent-tlv port-address	417
Configure agent-tlv chassis-id	417
Configure agent-tlv port-id	418
Configure basic-management port-description	419

Configure basic-management system-description	420
Configure basic-management system-name	420
Configure basic-management system-capabilities	421
Configure basic-management management-address	422
Configure ieee-8021-org-specific port-vlan-id	423
Configure ieee-8021-org-specific port-protocol-vlan-id	424
Configure ieee-8021-org-specific vlan-name	424
Configure ieee-8021-org-specific protocol-identifier	425
Configure ieee-8021-org-specific vid-digest	426
Configure ieee-8021-org-specific management-vlan-id	427
Configure ieee-8021-org-specific link-aggregation	427
Configure ieee-8023-org-specific mac-phy	428
Configure ieee-8023-org-specific max-mtu-size	429
Configure network policy	430
Configure location	431
Configure inventory	431
Configure media capabilities	432
debug lldp (event rx tx message ha all)	433
no debug lldp (event rx tx message ha all)	433
clear lldp counters ((IFNAME)).	433
clear lldp neighbors ((IFNAME)).	434
snmp restart lldp	434
IPI-RIB	434
Configure prefix	434
Configure gateway	435
Configure bfd state	436
Configure description	437
Configure instance name	438
Configure recursive	439
Configure enable global table lookup	440
Configure interface	441
Configure instance type	442
Configure track id	443
Configure next-hop-interface enable-global-table-lookup	444
Configure ipv6 prefix	445
Configure next-hops-gateway gateway	446
Configure next-hop-gateway bfd-state	447
Configure distance	448
Configure next-hop-gateway description	449
Configure next-hop-gateway recursive	450
Configure next-hop-gateway enable-global-table-lookup	451
Configure next-hops-interface interface	452
Configure next-hop-interface description	453
Configure next-hop-interface track-id	454
Configure next-hop-interface enable-global-table-lookup	455
Configure fib retain	456
Configure max ecmp paths	456

Configure max static routes	457
Configure max fib routes	457
Configure ipv4 enable bfd all interfaces.	458
Configure ipv6 enable bfd all interfaces.	458
Configure rib options	458
Configure ipv4 routing options	459
Configure ipv6 routing options	459
Configure source prefix	459
Configure protocol type	460
Configure ipv4 enable bfd	461
Configure ipv6 enable bfd	462
snmp restart rib	462
clear ip route kernel	462
clear ip kernel route	463
clear ipv6 route kernel	463
clear ip route *	463
clear ip route A.B.C.D/M	463
clear ipv4 route *	463
clear ipv4 route A.B.C.D/M.	464
clear ipv6 route *	464
clear ipv6 route X:X::X:X/M	464
debug rib (all events packet packet send packet rcv packet detail packet send detail packet rcv detail nsm bfd monitor hal events hal ipc)	464
no debug rib (all events packet packet send packet rcv packet detail packet send detail packet rcv detail nsm bfd monitor hal events hal ipc)	465
debug ip routing (all add-route delete-route mod-route)	465
no debug ip routing (all add-route delete-route mod-route)	465
debug ipv6 routing (all add-route delete-route mod-route).	466
no debug ipv6 routing (all add-route delete-route mod-route)	466
IPI-RIB-VRF	466
Configure ipv4 enable bfd all interfaces.	466
Configure ipv6 enable bfd all interfaces.	467
Configure distance.	467
Configure instance name.	468
Configure max limit	469
Configure warning threshold	470
Configure instance type	471
Configure ipv6 warning-threshold	472
clear ip route vrf NAME *	472
clear ip route vrf NAME A.B.C.D/M	473
clear ipv4 route vrf NAME *	473
clear ipv4 route vrf NAME A.B.C.D/M	473
clear ipv6 route vrf NAME *	474
clear ipv6 route vrf NAME X:X::X:X/M	474
IPI-OSPF	474
Configure area interface config mode	474
Configure enable multi instance capability.	475

Configure grace period	475
Configure max grace period	476
Configure disable all neighbors	476
Configure disable neighbor	477
Configure tie break method	477
Configure default retry interval	477
Configure enable better protection	478
Configure ospf id	478
Configure router id	479
Configure process router-id	479
Configure flood reduction	480
Configure rfc1583 compatibility	480
Configure database summary	481
Configure bfd enable all interfaces	481
Configure log adjacency changes	482
Configure shutdown	482
Configure area border type	483
Configure reference bandwidth	483
Configure max database descriptors	484
Configure p2p rfc incompatible	484
Configure context name	485
Configure passive interface all	485
Configure passive mode	486
Configure address	486
Configure originate	487
Configure route map	488
Configure mpls	489
Configure block range size	489
Configure disable receive	490
Configure advertise local	491
Configure disable cspf	491
Configure disable traffic engineering	492
Configure disable graceful restart	492
Configure disable opaque lsa	493
Configure enable vrf lite	493
Configure link local signaling	494
Configure maximum areas number	495
Configure authentication type	495
Configure default cost	496
Configure shortcut	496
Configure name	497
Configure cost	498
Configure network type	499
Configure passive	499
Configure priority	500
Configure area id	501
Configure enabled	502

Configure filter out	503
Configure traffic engineering metric	504
Configure ldp igp sync enable	505
Configure holddown timer	505
Configure dead interval	507
Configure hello interval	507
Configure retransmission interval	508
Configure no summary	509
Configure is stub	510
Configure nssa enable	511
Configure stability interval	512
Configure filter-in name	513
Configure filter-out name	514
Configure filter-in name	515
Configure filter-out name	515
Configure ip address	516
Configure host cost	517
Configure instance id	518
Configure area-ranges address	519
Configure disable advertise	519
Configure remote router id	520
Configure fall over	521
Configure key	522
Configure authentication authentication-type	523
Configure message digest id	523
Configure transmit delay	525
Configure destination id	526
Configure source id	527
Configure limit type	528
Configure exit interval	528
Configure keep all paths	529
Configure remote lfa areas	530
Configure fast-reroute route-map	530
Configure idx	531
Configure topologies-independent-lfa area-id	532
Configure default distance	533
Configure intra area distance	533
Configure access control list	534
Configure summary-addresses address	535
Configure not advertise	535
Configure tag	536
Configure filter-in access-control-list	537
Configure access control list isis	537
Configure access control list bgp	538
Configure access control list rip	539
Configure access control list static	539
Configure access control list connected	540

Configure access control list kernel	540
Configure ospf process id	541
Configure primary domain id address	542
Configure primary domain id hex	542
Configure secondary domain id address	543
Configure secondary domain id hex	544
Configure bgp-link-state enabled	545
Configure throttle timer	545
Configure neighbors address	546
Configure poll interval	547
Configure termination hold interval	548
Configure min arrival interval	548
Configure max delay	549
Configure min delay	550
Configure default metric	550
Configure protocol	551
Configure metric	552
Configure ospf-processes ospf-process-id	553
Configure metric type	553
Configure isis process id	554
Configure isis-process metric	555
Configure include stub	556
Configure enable max router lsa	557
Configure on startup include stub	557
Configure max on startup	558
Configure entropy capability	559
Configure teName	559
Configure link local exchange	560
Configure ospfv2-processes area-id	560
Configure ospfv2-processes ospf-process-id	561
Configure multi-areas area-id	562
Configure neighbor	563
Configure rate limit	563
Configure bfd	566
Configure retransmission	568
Configure cspf events	568
Configure debug bfd	569
Configure debug rate-limit	569
Configure segment routing	570
Configure route	570
Configure rib	570
Configure nsm	571
Configure nfsm	571
Configure lsa	572
Configure ifsm	572
Configure events	572
Configure debug cspf-events	573

Configure cspf hexdump	573
Configure debug retransmission	574
Configure distribute	574
Configure topology independent lfa	574
Configure lfa	575
Configure policy	575
Configure redistribute	575
Configure graceful restart	576
Configure packet hello	576
Configure packet dd	577
Configure packet ls request	577
Configure packet ls update	577
Configure packet ls ack	578
clear ip ospf <0-65535> process	578
clear ip ospf process	579
restart ip ospf graceful (grace-period <2-1800>)	579
snmp restart ospf	579
debug ospf all	579
no debug ospf all	579
debug ospf bfd	580
no debug ospf bfd	580
debug ospf database-timer rate-limit	580
no debug ospf database-timer rate-limit	580
debug ospf sr	580
no debug ospf sr	581
debug ospf route ({spf ia ase install spf-terse })	581
no debug ospf route ({spf ia ase install spf-terse })	581
debug ospf rib ({interface redistribute })	581
no debug ospf rib ({interface redistribute })	582
debug ospf packet ({send recv detail })	582
no debug ospf packet ({send recv detail })	582
debug ospf packet hello ({send recv detail })	583
no debug ospf packet hello ({send recv detail })	583
debug ospf packet dd ({send recv detail })	583
no debug ospf packet dd ({send recv detail })	583
debug ospf packet ls-request ({send recv detail })	584
no debug ospf packet ls-request ({send recv detail })	584
debug ospf packet ls-update ({send recv detail })	584
no debug ospf packet ls-update ({send recv detail })	585
debug ospf packet ls-ack ({send recv detail })	585
no debug ospf packet ls-ack ({send recv detail })	585
debug ospf nsm ({interface redistribute })	585
no debug ospf nsm ({interface redistribute })	586
debug ospf nsm ({status events timers })	586
no debug ospf nsm ({status events timers })	586
debug ospf lsa ({generate flooding install refresh maxage })	587
no debug ospf lsa ({generate flooding install refresh maxage })	587

debug ospf ifsm ({status events timers})	587
no debug ospf ifsm ({status events timers})	587
debug ospf events ({abr nssa asbr vlink lsa os router})	588
no debug ospf events ({abr nssa asbr vlink lsa os router})	588
debug cspf all	588
no debug cspf all	589
debug cspf events	589
no debug cspf events	589
debug cspf hexdump	589
no debug cspf hexdump	589
debug ip ospf all	590
no debug ip ospf all	590
debug ip ospf retransmission	590
no debug ip ospf retransmission	590
debug ip ospf dist-ls	590
no debug ip ospf dist-ls	591
debug ip ospf tilfa	591
no debug ip ospf tilfa	591
debug ip ospf lfa	591
no debug ip ospf lfa	591
debug ip ospf policy	592
no debug ip ospf policy	592
debug ip ospf redistribute ({detail terse})	592
no debug ip ospf redistribute ({detail terse})	592
debug ip ospf graceful-restart ({detail terse})	593
no debug ip ospf graceful-restart ({detail terse})	593
IPI-OSPF-INTERFACE	593
Configure cost	593
Configure priority	594
Configure mtu ignore	594
Configure network type	595
Configure disable all ospf	595
Configure traffic engineering metric	596
Configure mtu	596
Configure enable flood reduction	597
Configure enable demand circuit	597
Configure enable bfd	598
Configure disable fast reroute	598
Configure key	599
Configure authentication type	599
Configure message digest id	600
Configure filter out	600
Configure dead interval	601
Configure hello interval	602
Configure retransmission interval	602
Configure transmit delay	603
Configure resync timeout	604

Configure ldp igp sync enable	604
Configure holddown timer	605
Configure name	605
Configure interface address	606
Configure address mtu-ignore	607
Configure authentication key	607
Configure authentication authentication-type	608
Configure message digest encryption type	609
Configure timers dead-interval	610
Configure timers hello-interval	611
Configure timers retransmission-interval	611
Configure timers transmit-delay	612
Configure timers resync-timeout	613
Configure lsa filter-out	614
IPI-OSPFV3	614
Configure display route on single line	614
Configure grace period	615
Configure controlled restarts only	615
Configure max grace period	616
Configure disable all neighbors	616
Configure disable neighbor	617
Configure ospfv3 id	617
Configure vrf name	618
Configure router id	618
Configure bfd enable all interfaces	619
Configure database summary	619
Configure area border type	620
Configure default metric	620
Configure shutdown	621
Configure log adjacency changes	621
Configure reference bandwidth	622
Configure max database descriptors	622
Configure default distance	623
Configure intra area distance	623
Configure traffic engineering	624
Configure disable graceful restart	625
Configure exponential max delay	625
Configure ospf6SRv6enable	626
Configure ospf6SRv6LocatorName	627
Configure all interfaces	627
Configure name	628
Configure address	629
Configure translate tag	629
Configure not advertise	630
Configure summary-address translate-tag	631
Configure all tag	631
Configure originate	632

Configure route map	633
Configure access control list	634
Configure protocol	634
Configure ospf process id	635
Configure routing-protocols protocol	636
Configure metric.	636
Configure ospf-processes ospf-process-id	638
Configure metric type.	638
Configure default cost	639
Configure no summary.	640
Configure enable	641
Configure area id	641
Configure remote router id	642
Configure bfd fall over	643
Configure instance id	644
Configure authentication cryptomap	644
Configure dead interval	645
Configure address-ranges address	647
Configure address-range not-advertise	647
Configure address-ranges address	648
Configure address-range not-advertise	649
Configure summary-addresses address	650
Configure summary-address not-advertise	651
Configure tag	651
Configure default-information originate	652
Configure always advertise default route.	653
Configure protocol af	654
Configure route tag	654
Configure ospfv2 process id	656
Configure ospf-process metric.	656
Configure enabled	657
Configure throttle timer	658
Configure retransmission.	659
Configure bfd	660
Configure debug bfd	662
Configure debug retransmission	662
Configure dist ls	662
Configure events	663
Configure ifsm	663
Configure lsa	664
Configure nfsm.	664
Configure nsm	664
Configure rib	665
Configure route	665
Configure packet hello	666
Configure packet dd.	666
Configure packet ls request	666

Configure packet ls update	667
Configure packet ls ack	667
debug ipv6 ospf	668
no debug ipv6 ospf	668
debug ipv6 ospf all	668
no debug ipv6 ospf all	668
debug ipv6 ospf bfd	668
no debug ipv6 ospf bfd	669
debug ipv6 ospf retransmission	669
no debug ipv6 ospf retransmission	669
debug ipv6 ospf dist-ls	669
no debug ipv6 ospf dist-ls	669
debug ipv6 ospf events ({abr asbr vlink os router nssa})	670
no debug ipv6 ospf events ({abr asbr vlink os router nssa})	670
debug ipv6 ospf ifsm ({status events timers})	670
no debug ipv6 ospf ifsm ({status events timers})	670
debug ipv6 ospf lsa ({generate flooding install refresh maxage})	671
no debug ipv6 ospf lsa ({generate flooding install refresh maxage})	671
debug ipv6 ospf nfsm ({status events timers})	671
no debug ipv6 ospf nfsm ({status events timers})	672
debug ipv6 ospf nsm ({interface redistribute})	672
no debug ipv6 ospf nsm ({interface redistribute})	672
debug ipv6 ospf packet ({send recv detail})	672
no debug ipv6 ospf packet ({send recv detail})	673
debug ipv6 ospf packet hello ({send recv detail})	673
no debug ipv6 ospf packet hello ({send recv detail})	673
debug ipv6 ospf packet dd ({send recv detail})	674
no debug ipv6 ospf packet dd ({send recv detail})	674
debug ipv6 ospf packet ls-request ({send recv detail})	674
no debug ipv6 ospf packet ls-request ({send recv detail})	674
debug ipv6 ospf packet ls-update ({send recv detail})	675
no debug ipv6 ospf packet ls-update ({send recv detail})	675
debug ipv6 ospf packet ls-ack ({send recv detail})	675
no debug ipv6 ospf packet ls-ack ({send recv detail})	676
debug ipv6 ospf rib ({interface redistribute})	676
no debug ipv6 ospf rib ({interface redistribute})	676
debug ipv6 ospf route ({spf ia ase install})	676
no debug ipv6 ospf route ({spf ia ase install})	677
clear ipv6 ospf (WORD) process	677
restart ipv6 ospf graceful (grace-period <2-1800>)	677
snmp restart ospf6	678
IPI-OSPFV3-INTERFACE	678
Configure shutdown	678
Configure enable link lsa suppression	678
Configure enable bfd	679
Configure interface name	680
Configure network type	680

Configure cost	681
Configure priority	682
Configure traffic engineering metric	682
Configure mtu	683
Configure mtu ignore	684
Configure authentication cryptomap	684
Configure area id	685
Configure ospfv3 id	686
Configure instance id	687
Configure dead interval	688
Configure hello interval	688
Configure transmission delay	689
Configure retransmission interval	690
Configure address	691
Configure poll interval	691
IPI-BGP	693
Configure enable aggregate nexthop	693
Configure enable path select	693
Configure disable rfc7606 error handling	693
Configure enable bogon filtering	694
Configure enable extended asn capability	694
Configure enable nexthop tracking	695
Configure nexthop tracking delay	695
Configure enable rfc 1771 strict origin	696
Configure action name	696
Configure action standard number	697
Configure list type	697
Configure action name standard	698
Configure name	699
Configure action expanded	700
Configure expanded type	701
Configure extended action number	701
Configure extended action	702
Configure action	703
Configure value	704
Configure large action number	705
Configure standard type	705
Configure action-values action	706
Configure action-values action	707
Configure access list name	708
Configure address family name	708
Configure vrf name	709
Configure enable per prefix label mode	710
Configure options	710
restart bgp graceful	711
clear bgp statistics	711
snmp restart bgp	711

debug bgp (all nht nsm fsm events filters keepalives updates in updates out dampening bfd mpls vpls link-state rib srv6 normal add-path adj-out route-scan packet-send packet-received soft-clear route-process evpn peer disable-evpn-info-oplog disable-all-info-oplog rpki)	711
no debug bgp (all nht nsm fsm events filters keepalives updates in updates out dampening bfd mpls vpls link-state rib srv6 normal add-path adj-out route-scan packet-send packet-received soft-clear route-process evpn peer disable-evpn-info-oplog disable-all-info-oplog rpki)	712
no debug all bgp	712
IPI-BGP-INSTANCE	712
Configure no external fail over	712
Configure no best path tie break	713
Configure inbound route filter disable	713
Configure external route leak disable	714
Configure no client route reflection	714
Configure med type	715
Configure bgp as	715
Configure bgp-instances bgp-as	716
Configure router id	716
Configure cluster id	717
Configure local preference	717
Configure graceful shutdown capable	718
Configure graceful shutdown	718
Configure graceful shutdown local preference	719
Configure log neighbor changes	720
Configure scan interval	720
Configure best path dont compare originator	721
Configure enable deterministic med	721
Configure enforce first as for ebgp	722
Configure local as count	722
Configure bgp-instance med-type	723
Configure multi path relax	723
Configure enable mpls nexthop tracking	724
Configure ignore aigp for bestpath	724
Configure auto policy soft reset	725
Configure identifier	725
Configure peer as number	726
Configure confed vrf name	726
Configure confederation-vrf peer-as-number	727
Configure enable graceful restart	728
Configure restart time	728
Configure stale path max retention time	729
Configure route selection max defer time	730
Configure graceful reset	730
Configure keep alive	731
Configure always compare med	732
Configure ignore as path length	732
Configure best path compare confed	733

Configure external compare router id	733
Configure source ip prefix	734
Configure access list name	735
Configure all routes	735
Configure route map name	736
IPI-BGP-ADDRESS-FAMILY	737
Configure safi	737
Configure additional path fast reroute	737
Configure additional paths mode	738
Configure bgp as	739
Configure afi	739
Configure additional path select all	740
Configure address-family additional-path-select-all	741
Configure address-family additional-path-select-all	741
Configure additional paths best select count	742
Configure address-family additional-paths-best-select-count	743
Configure address-family additional-paths-best-select-count	743
Configure no client route reflection	744
Configure enable auto summary	745
Configure enable additional path pic	745
Configure enable network igp sync	746
Configure multi path	747
Configure address-family multi-path	747
Configure enable igp sync	748
Configure enable bgp implicit null	749
Configure backdoor	749
Configure local network prefix	750
Configure aggregate address	751
Configure aggregate type	752
Configure aggregate-address-list aggregate-type	753
Configure aggregate-address-list aggregate-type	754
Configure aggregate-address-list aggregate-type	755
Configure local	756
Configure ebgp	757
Configure ebgp max path	758
Configure maximum-paths ebgp-max-path	758
Configure ibgp max path	759
Configure eibgp max path	760
Configure map name	761
Configure table map filter	762
Configure enable dampening	763
Configure route-flap-dampenings enable-dampening	763
Configure route-flap-dampenings enable-dampening	764
Configure reach half life	765
Configure route-flap-dampening reach-half-life	766
Configure route-flap-dampening reach-half-life	767
Configure max suppress time	768

Configure reuse penalty	769
Configure suppress penalty	770
Configure unreach half life	771
Configure route-flap-dampening unreach-half-life	772
Configure route-flap-dampening unreach-half-life	774
Configure dampening rmap name	775
Configure route-flap-dampening dampening-rmap-name	776
Configure route-flap-dampening dampening-rmap-name	777
Configure protocol type	778
Configure afi	779
Configure redistribute ospf route map	779
Configure bgpSRv6enable	780
Configure bgpSRv6LocatorName	781
Configure validation enable	782
Configure bestpath use validity	783
Configure bestpath allow invalid	784
clear ip bgp (A.B.C.D X::X::X WORD) (description LINE)	784
IPI-BGP-PEER-GROUP	785
Configure peer group tag	785
Configure bgp as	786
Configure peer group range	786
Configure group limit	787
Configure enable peer bfd	788
Configure enable peer bfd multihop	788
Configure peer as	789
Configure graceful shut	790
Configure graceful shutdown timer	790
Configure peer restart time	791
Configure peer description	792
Configure peer connect interval	792
Configure peer as origin interval	793
Configure min route advertisement interval	794
Configure enable dynamic capability	794
Configure collide established	795
Configure source identifier	796
Configure enforce multi hop	796
Configure neighbor override capability	797
Configure neighbor strict capability match	798
Configure disallow infinite hold time	798
Configure neighbor passive	799
Configure peer shutdown description	800
Configure peer port	800
Configure bgp version	801
Configure enable ext opt param len	802
Configure tcp adjust mss	802
Configure keep alive	803
Configure enabled	804

Configure maximum hop count	805
Configure auth key encrypt	805
Configure password	806
Configure optional as	807
Configure peer local as	808
Configure no prepend local as	809
Configure additional paths mode	809
Configure afi	810
Configure safi	811
Configure additional path select all	812
Configure address-family additional-path-select-all	813
Configure address-family additional-path-select-all	814
Configure additional paths best select count	814
Configure address-family additional-paths-best-select-count	815
Configure address-family additional-paths-best-select-count	816
Configure activate	817
Configure address-family activate	818
Configure address-family activate	819
Configure address-family activate	820
Configure address-family activate	820
Configure address-family activate	821
Configure address-family activate	822
Configure address-family activate	823
Configure default peer route map name	824
Configure address-family default-peer-route-map-name	825
Configure peer route map orig name	825
Configure address-family peer-route-map-orig-name	826
Configure weight	827
Configure address-family weight	828
Configure route server client	829
Configure address-family route-server-client	830
Configure next hop self	831
Configure address-family next-hop-self	832
Configure address-family next-hop-self	833
Configure address-family next-hop-self	834
Configure flowspec validation disable	834
Configure address-family flowspec-validation-disable	835
Configure address-family flowspec-validation-disable	836
Configure peer route reflector	837
Configure address-family peer-route-reflector	838
Configure address-family peer-route-reflector	839
Configure address-family peer-route-reflector	840
Configure address-family peer-route-reflector	840
Configure address-family peer-route-reflector	841
Configure address-family peer-route-reflector	842
Configure address-family peer-route-reflector	843
Configure peer remove private as	844

Configure address-family peer-remove-private-as	845
Configure no send community	846
Configure address-family no-send-community	847
Configure address-family no-send-community	848
Configure address-family no-send-community	848
Configure address-family no-send-community	849
Configure no send community type	850
Configure address-family no-send-community-type	851
Configure address-family no-send-community-type	852
Configure address-family no-send-community-type	853
Configure address-family no-send-community-type	853
Configure neighbor attribute unchanged	854
Configure address-family neighbor-attribute-unchanged	855
Configure address-family neighbor-attribute-unchanged	856
Configure address-family neighbor-attribute-unchanged	857
Configure orf prefix capability	858
Configure address-family orf-prefix-capability	859
Configure address-family orf-prefix-capability	859
Configure peer allow ebgp vpn	860
Configure allow as number	861
Configure address-family allow-as-number	862
Configure address-family allow-as-number	863
Configure capability graceful restart	864
Configure address-family capability-graceful-restart	865
Configure address-family capability-graceful-restart	866
Configure address-family capability-graceful-restart	867
Configure unsuppress route map name	868
Configure address-family unsuppress-route-map-name	869
Configure prefix count	869
Configure maximum-prefixes prefix-count	870
Configure stop update	871
Configure maximum-prefix stop-update	872
Configure maximum-prefix stop-update	873
Configure maximum prefix warning	874
Configure maximum-prefix maximum-prefix-warning	875
Configure threshold percentage	876
Configure maximum-prefix threshold-percentage	877
Configure warning only	878
Configure maximum-prefix warning-only	880
Configure access list identifier	881
Configure filter direction	882
Configure as access list identifier	883
Configure as list direction	884
Configure safi	885
Configure peer group tag	886
Configure prefix list name	887
Configure route map name	888

Configure route map direction	889
Configure route-map-filter route-map-name	890
Configure route-map-filter route-map-name	891
Configure admin status	892
Configure aigp admin-status	893
Configure aigp admin-status	894
Configure aigp send med.	895
Configure aigp aigp-send-med.	896
Configure aigp aigp-send-med.	897
Configure send cost community id.	898
Configure enable transitive	899
Configure point of insertion	900
Configure cost-community enable-transitive	901
Configure cost-community send-cost-community-id	902
Configure cost-community enable-transitive	903
clear bgp peer-group WORD l2vpn evpn soft (out in).	905
IPI-BGP-PEER	905
Configure enable peer bfd	905
Configure bgp as	906
Configure enable peer bfd multihop.	906
Configure peer address	907
Configure interface name.	907
Configure mapped peer group tag	908
Configure peer mapped-peer-group-tag	909
Configure tcp adjust mss	909
Configure peer port	910
Configure min route advertisement interval	911
Configure peer as origin interval	911
Configure collide established.	912
Configure peer description.	913
Configure disallow infinite hold time.	913
Configure enforce multi hop.	914
Configure graceful shut	915
Configure graceful shutdown timer	915
Configure neighbor override capability	916
Configure neighbor passive	917
Configure peer restart time	917
Configure peer shutdown.	918
Configure neighbor strict capability match.	919
Configure source identifier	919
Configure bgp version	920
Configure enable ext opt param len.	921
Configure peer connect interval.	921
Configure peer as	922
Configure peer peer-as	923
Configure peer peer-as	923
Configure peer peer-as	924

Configure peer graceful-shut	925
Configure peer graceful-shutdown-timer	925
Configure peer peer-restart-time	926
Configure peer peer-description	927
Configure peer peer-connect-interval	927
Configure peer peer-as-origin-interval	928
Configure peer min-route-advertisement-interval	929
Configure enable dynamic capability	930
Configure peer collide-established	930
Configure peer source-identifier	931
Configure peer enforce-multi-hop	932
Configure peer neighbor-override-capability	932
Configure peer neighbor-strict-capability-match	933
Configure peer disallow-infinite-hold-time	933
Configure peer neighbor-passive	934
Configure peer shutdown description	935
Configure peer peer-port	935
Configure peer bgp-version	936
Configure peer enable-ext-opt-param-len	937
Configure peer tcp-adjust-mss	937
Configure hold time	938
Configure keep alive	939
Configure enabled	940
Configure maximum hop count	940
Configure ebgp-multihop enabled	941
Configure ebgp-multihop enabled	942
Configure peer local as	943
Configure local-as peer-local-as	944
Configure no prepend local as	944
Configure replace local as	945
Configure auth key encrypt	946
Configure password	947
Configure bgp-password auth-key-encrypt	948
Configure bgp-password auth-key-encrypt	949
Configure additional paths mode	949
Configure afi	950
Configure safi	951
Configure additional path select all	952
Configure address-family additional-path-select-all	953
Configure address-family additional-path-select-all	953
Configure additional paths best select count	954
Configure address-family additional-paths-best-select-count	955
Configure address-family additional-paths-best-select-count	956
Configure activate	957
Configure address-family activate	958
Configure address-family activate	959
Configure address-family activate	959

Configure address-family activate	960
Configure address-family activate	961
Configure address-family activate	962
Configure address-family activate	963
Configure address-family activate	964
Configure address-family activate	964
Configure address-family activate	965
Configure address-family activate	966
Configure de activate	967
Configure address-family de-activate	968
Configure address-family de-activate	969
Configure address-family de-activate	969
Configure address-family de-activate	970
Configure address-family de-activate	971
Configure address-family de-activate	972
Configure address-family de-activate	973
Configure address-family de-activate	974
Configure address-family de-activate	974
Configure address-family de-activate	975
Configure default peer route map name	976
Configure address-family default-peer-route-map-name	977
Configure address-family default-peer-route-map-name	978
Configure peer route map orig name	979
Configure address-family peer-route-map-orig-name	979
Configure weight	980
Configure address-family weight	981
Configure address-family weight	982
Configure route server client	983
Configure address-family route-server-client	984
Configure address-family route-server-client	985
Configure next hop self	986
Configure address-family next-hop-self	987
Configure address-family next-hop-self	987
Configure address-family next-hop-self	988
Configure address-family next-hop-self	989
Configure flowspec validation disable	990
Configure address-family flowspec-validation-disable	991
Configure address-family flowspec-validation-disable	992
Configure peer route reflector	992
Configure address-family peer-route-reflector	993
Configure address-family peer-route-reflector	994
Configure address-family peer-route-reflector	995
Configure address-family peer-route-reflector	996
Configure address-family peer-route-reflector	997
Configure address-family peer-route-reflector	998
Configure address-family peer-route-reflector	999
Configure address-family peer-route-reflector	1000

Configure address-family peer-route-reflector	1001
Configure peer remove private as	1001
Configure address-family peer-remove-private-as.	1002
Configure address-family peer-remove-private-as.	1003
Configure no send community	1004
Configure address-family no-send-community	1005
Configure address-family no-send-community	1006
Configure address-family no-send-community	1007
Configure address-family no-send-community	1008
Configure no send community type	1008
Configure address-family no-send-community-type	1009
Configure address-family no-send-community-type	1010
Configure address-family no-send-community-type	1011
Configure address-family no-send-community-type	1012
Configure neighbor attribute unchanged	1013
Configure address-family neighbor-attribute-unchanged.	1013
Configure address-family neighbor-attribute-unchanged.	1014
Configure address-family neighbor-attribute-unchanged.	1015
Configure address-family neighbor-attribute-unchanged.	1016
Configure address-family neighbor-attribute-unchanged.	1017
Configure orf prefix capability	1018
Configure address-family orf-prefix-capability	1019
Configure address-family orf-prefix-capability	1019
Configure address-family orf-prefix-capability	1020
Configure peer allow ebgp vpn	1021
Configure allow as number	1022
Configure address-family allow-as-number	1023
Configure address-family allow-as-number	1024
Configure address-family allow-as-number	1025
Configure address-family allow-as-number	1026
Configure address-family allow-as-number	1027
Configure capability graceful restart	1028
Configure address-family capability-graceful-restart	1029
Configure address-family capability-graceful-restart	1030
Configure address-family capability-graceful-restart	1031
Configure extended nexthop encode	1032
Configure address-family capability-graceful-restart	1033
Configure address-family capability-graceful-restart	1034
Configure address-family capability-graceful-restart	1034
Configure mapped peer group tag af.	1035
Configure unsuppress route map name.	1036
Configure address-family unsuppress-route-map-name	1037
Configure address-family unsuppress-route-map-name	1038
Configure prefix count	1039
Configure maximum-prefixes prefix-count	1040
Configure maximum-prefixes prefix-count	1041
Configure stop update	1042

Configure maximum-prefix stop-update	1043
Configure maximum-prefix stop-update	1044
Configure maximum-prefix stop-update	1045
Configure maximum prefix warning	1046
Configure maximum-prefix maximum-prefix-warning	1047
Configure maximum-prefix maximum-prefix-warning	1048
Configure threshold percentage	1049
Configure maximum-prefix threshold-percentage	1050
Configure maximum-prefix threshold-percentage	1051
Configure warning only	1052
Configure maximum-prefix warning-only	1053
Configure maximum-prefix warning-only	1054
Configure access list identifier	1055
Configure filter direction	1056
Configure distribute-list-filter access-list-identifier	1057
Configure as access list identifier	1058
Configure as list direction	1059
Configure as-list-filter as-access-list-identifier	1060
Configure prefix list name	1061
Configure prefix filter direction	1062
Configure prefix-list-filter prefix-list-name	1063
Configure prefix-list-filter prefix-list-name	1064
Configure route map name	1065
Configure route map direction	1066
Configure route-map-filter route-map-name	1068
Configure route-map-filter route-map-name	1069
Configure route-map-filter route-map-name	1070
Configure route-map-filter route-map-name	1071
Configure admin status	1072
Configure aigp admin-status	1073
Configure aigp admin-status	1074
Configure aigp send med	1074
Configure aigp aigp-send-med	1075
Configure aigp aigp-send-med	1076
Configure send cost community id	1077
Configure enable transitive	1078
Configure point of insertion	1080
Configure cost-community enable-transitive	1081
Configure cost-community send-cost-community-id	1082
Configure cost-community enable-transitive	1083
clear ip bgp * (description LINE)	1084
clear bgp * l2vpn evpn soft (out in)	1084
clear bgp <1-4294967295> l2vpn evpn soft (out in)	1085
clear bgp (A.B.C.D X::X::X WORD) l2vpn evpn soft (out in)	1085
IPI-BGP-ADDRESS-FAMILY-VRF	1086
Configure enable auto summary	1086
Configure enable network igp sync	1086

Configure enable igp sync	1087
Configure multipath relax	1088
Configure graceful shutdown	1089
Configure graceful shutdown capable	1089
Configure graceful shutdown local preference	1090
Configure additional path select all	1091
Configure additional paths mode	1092
Configure enable pic	1092
Configure additional paths best select count	1093
Configure local	1094
Configure aggregate address	1095
Configure bgp as	1096
Configure aggregate type	1096
Configure afi	1097
Configure safi	1098
Configure vrf name	1099
Configure aggregate-address-list aggregate-type	1100
Configure aggregate-address-list aggregate-type	1101
Configure aggregate-address-list aggregate-type	1102
Configure aggregate-address-list aggregate-type	1103
Configure ebgp max path	1104
Configure maximum-paths ebgp-max-path	1104
Configure ibgp max path	1105
Configure map name	1106
Configure table map filter	1107
Configure enable dampening	1108
Configure reach half life	1109
Configure max suppress time	1110
Configure unreach half life	1111
Configure dampening rmap name	1112
Configure protocol type	1113
Configure bgpSRv6enable	1114
Configure sid alloc type	1115
Configure ospf instance number	1116
Configure redistribute ospf route map	1117
Configure peer as	1118
Configure peer address	1119
Configure source identifier	1120
Configure bgp version	1121
Configure peer connection interval	1121
Configure enforce multihop	1122
Configure peer shutdown	1123
Configure neighbor passive	1124
Configure enable dynamic capability	1125
Configure min route advertisement interval	1126
Configure peer as origin interval	1127
Configure neighbor as override	1128

Configure peer interface name	1129
Configure peer description	1130
Configure peer restart time	1131
Configure site origin identifier	1132
Configure graceful shut	1132
Configure graceful shut timer	1133
Configure bgp port	1134
Configure enable ext opt param len	1135
Configure vrf-peer additional-paths-mode	1136
Configure vrf-peer additional-path-select-all	1137
Configure vrf-peer additional-paths-best-select-count	1138
Configure tcp adjust mss	1139
Configure enable peer bfd	1140
Configure enable peer bfd multihop	1140
Configure activate	1141
Configure vrf-peer activate	1142
Configure flowspec validation disable	1143
Configure vrf-peer activate	1144
Configure de activate	1145
Configure vrf-peer de-activate	1146
Configure default peer route map name	1147
Configure peer route map orig name	1147
Configure weight	1148
Configure vrf-peer weight	1149
Configure peer route reflector	1150
Configure vrf-peer peer-route-reflector	1151
Configure peer remove private as	1152
Configure no send community	1153
Configure no send community type	1154
Configure neighbor attribute unchanged	1155
Configure vrf-peer neighbor-attribute-unchanged	1156
Configure orf prefix capability	1157
Configure peer allow ebgp vpn	1158
Configure allow as number	1159
Configure capability graceful restart	1160
Configure mapped peer group tag af	1161
Configure unsuppress route map name	1161
Configure hold time	1162
Configure enabled	1163
Configure maximum hop count	1164
Configure prefix count	1165
Configure stop update	1166
Configure maximum prefix warning	1168
Configure threshold percentage	1169
Configure warning only	1170
Configure auth key encrypt	1171
Configure password	1172

Configure access list identifier	1173
Configure as access list identifier	1174
Configure prefix list name	1175
Configure route map name	1176
Configure peer local as	1177
Configure no prepend local as	1178
Configure backdoor	1179
Configure local network prefix	1180
Configure validation enable	1181
Configure bestpath use validity	1182
Configure bestpath allow invalid	1183
Configure peer group tag	1184
Configure peer group range	1185
Configure peer-group peer-group-range	1186
Configure peer-groups peer-group-tag	1187
Configure group limit	1188
Configure peer-group peer-as	1188
Configure peer-group source-identifier	1189
Configure peer-group bgp-version	1190
Configure peer-group peer-connection-interval	1191
Configure peer-group enforce-multihop	1192
Configure peer shutdown description	1193
Configure peer-group neighbor-passive	1194
Configure peer-group enable-dynamic-capability	1195
Configure peer-group min-route-advertisement-interval	1196
Configure peer-group peer-as-origin-interval	1197
Configure peer-group neighbor-as-override	1198
Configure peer-group peer-description	1199
Configure peer-group peer-restart-time	1200
Configure peer-group site-origin-identifier	1201
Configure peer-group graceful-shut	1201
Configure peer-group graceful-shut-timer	1202
Configure peer-group bgp-port	1203
Configure peer-group enable-ext-opt-param-len	1204
Configure peer-group additional-paths-mode	1205
Configure peer-group additional-path-select-all	1206
Configure peer-group additional-paths-best-select-count	1207
Configure peer-group tcp-adjust-mss	1208
Configure peer-group enable-peer-bfd	1209
Configure peer-group enable-peer-bfd-multihop	1209
Configure peer-group activate	1210
Configure peer-group activate	1211
Configure peer-group activate	1212
Configure peer-group default-peer-route-map-name	1213
Configure peer-group peer-route-map-orig-name	1214
Configure peer-group weight	1215
Configure peer-group weight	1216

Configure peer-group flowspec-validation-disable	1217
Configure peer-group peer-route-reflector	1218
Configure peer-group peer-route-reflector	1219
Configure peer-group peer-remove-private-as	1220
Configure peer-group no-send-community	1221
Configure peer-group no-send-community-type	1221
Configure peer-group no-send-community	1222
Configure peer-group no-send-community-type	1223
Configure peer-group neighbor-attribute-unchanged	1224
Configure peer-group neighbor-attribute-unchanged	1225
Configure peer-group orf-prefix-capability	1226
Configure peer-group peer-allow-ebgp-vpn	1227
Configure peer-group allow-as-number	1228
Configure peer-group capability-graceful-restart	1229
Configure peer-group unsuppress-route-map-name	1230
Configure optional as	1231
Configure bgp-password auth-key-encrypt	1232
Configure bgp-password auth-key-encrypt	1233
Configure keep alive	1234
Configure local-as peer-local-as	1235
Configure replace local as	1236
Configure ebgp-multihop enabled	1237
Configure ebgp-multihop enabled	1238
Configure maximum-prefixes prefix-count	1239
Configure maximum-prefix stop-update	1240
Configure maximum-prefix maximum-prefix-warning	1241
Configure maximum-prefix threshold-percentage	1242
Configure maximum-prefix warning-only	1243
Configure filter direction	1244
Configure as list direction	1245
Configure prefix filter direction	1246
Configure route map direction	1247
clear ip bgp all vrf (VRFNAME all default) (description LINE)	1249
clear ip bgp vrf WORD (A.B.C.D X::X::X WORD WORD) (description LINE)	1249
IPI-BGP-VRF	1250
Configure rd string	1250
Configure import map	1250
Configure export map	1251
Configure direction	1252
Configure service type	1252
IPI-BGP-EPE	1253
Configure enable epe	1253
Configure enable peer node	1254
Configure set name	1254
Configure address	1255
Configure peer address	1256
Configure hop address	1257

Configure hop address	1258
Configure adjacent address	1259
IPI-BGP-FLOWSPEC	1260
Configure enable flowspec controller	1260
Configure local install	1260
Configure afi type	1261
Configure address-family local-install	1261
Configure service policy type	1262
Configure vrf name	1263
Configure vrf local-install	1264
Configure controllers enable-flowspec-controller	1264
Configure address-family local-install	1265
Configure attached policy map name	1266
IPI-BGP-RPKI	1267
Configure server address	1267
Configure server protocol type	1269
Configure port	1270
IPI-ENHANCED-PBR	1272
Configure class type	1272
Configure protocol	1273
Configure port	1273
Configure destination port	1274
Configure source port	1274
Configure packet length	1275
Configure fragment type	1276
Configure destination prefix	1276
Configure source prefix	1277
Configure icmp type	1277
Configure icmp code	1278
Configure bit mask	1279
Configure match dscp value	1279
Configure type	1280
Configure reference description	1281
Configure policy map name	1281
Configure drop traffic	1282
Configure dscp set value	1283
Configure rate unit	1283
Configure route target	1284
IPI-BFD	1285
Configure disable default vccv capability	1285
Configure l2vpn ping use fec128 tlv	1286
Configure notification enabled	1286
Configure echo mode enabled	1286
Configure slow tx interval	1287
Configure detection multiplier	1287
Configure desired minimum tx interval	1288
Configure remote address	1289

Configure key string	1289
Configure options	1290
Configure enable oam srv6	1291
Configure enable mpls ping request	1291
Configure mpls ping reply	1291
snmp restart bfd	1292
debug bfd (events packets ipc-error ipc-event session nsm all)	1292
no debug bfd (events packets ipc-error ipc-event session nsm all)	1292
debug oam srv6	1292
no debug oam srv6	1293
IPI-BFD-INTERFACE	1293
Configure bfd disabled	1293
Configure bfd session type	1293
Configure detection multiplier	1294
Configure ipv4 source	1295
Configure name	1295
Configure required minimum tx interval	1296
Configure key string	1296
Configure session type	1297
Configure administrative down	1298
Configure non persistent	1298
IPI-SEAMLESS-BFD	1299
Configure sr policy name	1299
Configure admin down	1300
Configure detection multiplier	1300
Configure discriminator	1301
Configure required min rx interval	1301
IPI-IGP-TE	1302
Configure delay	1302
Configure delay variation	1303
Configure loss percentage	1303
Configure loss dynamic	1304
Configure name	1304
Configure dscp	1305
Configure reflector ip	1306
Configure a bit max	1307
Configure max value	1308
Configure loss a bit max	1308
Configure a bit max range maximum	1309
clear twamp measurement interface IFNAME	1310
clear twamp measurement interface all	1310
IPI-VRRP	1311
Configure disable virtual router mac address	1311
Configure vrrp v2 compatible	1311
Configure ipv4 exclude pseudo header	1312
Configure options	1312
Configure debug options	1312

Configure interface name	1313
Configure disable preempt mode	1313
Configure disable accept mode	1314
Configure virtual router id	1315
Configure interface ipv4-exclude-pseudo-header	1315
Configure authentication data	1316
Configure primary ip address	1316
Configure mlag active standby	1317
Configure priority	1318
Configure preempt delay	1318
Configure advertisement interval	1319
Configure enable	1320
Configure ip address owner	1321
Configure interface tracking name	1321
Configure tracking id	1322
Configure interfaces interface-name	1323
Configure interface disable-preempt-mode	1324
Configure interface disable-accept-mode	1324
Configure interface primary-ip-address	1325
Configure interface priority	1326
Configure interface preempt-delay	1326
Configure interface advertisement-interval	1327
Configure protocol-enable enable	1328
Configure virtual ip address	1328
Configure virtual-ip-address ip-address-owner	1329
Configure priority decrement	1330
Configure decrement	1331
snmp restart vrrp	1332
clear vrrp global statistics	1332
clear vrrp ipv4 statistics	1332
clear vrrp ipv6 statistics	1332
clear vrrp ipv4 statistics <1-255> IFNAME	1333
clear vrrp ipv6 statistics <1-255> IFNAME	1333
debug vrrp	1333
no debug vrrp	1334
debug vrrp (all packet events packet send packet recv)	1334
no debug vrrp (all packet events packet send packet recv)	1334
IPI-PREFIX-LIST	1334
Configure prefix list name	1334
Configure prefix list type	1335
Configure description	1335
Configure prefix addr	1336
Configure sequence id	1337
Configure maximum prefix length match	1337
Configure minimum prefix length match	1338
Configure action	1339
Configure entry maximum-prefix-length-match	1340

Configure exact prefix length match	1341
Configure ipv6 prefix addr	1342
Configure ipv6 ipv6-prefix-addr	1343
Configure entry maximum-prefix-length-match	1344
Configure entry minimum-prefix-length-match	1345
Configure entry minimum-prefix-length-match	1346
Configure entry maximum-prefix-length-match	1347
Configure entry exact-prefix-length-match	1347
Configure disable ipv4 sequence display	1348
Configure disable ipv6 sequence display	1349
clear ip prefix-list	1349
clear ipv6 prefix-list	1349
clear ip prefix-list WORD (A.B.C.D/M)	1350
clear ipv6 prefix-list WORD (X:X::X:X/M)	1350
IPI-PREFIX-GROUP	1350
Configure name	1350
Configure type	1351
Configure description	1351
Configure ipv4 entry	1352
Configure ipv4 match xpath entry	1352
Configure ipv6 entry	1353
Configure ipv6 match xpath entry	1353
IPI-ISIS	1354
Configure vrf name	1354
Configure instance	1355
Configure enable cspf capability	1355
Configure disable gr capability	1356
Configure isis-instance disable-gr-capability	1356
Configure disable adjacency check	1357
Configure enable backup srlg disjoint path	1357
Configure enable backup srlg disjoint forced	1358
Configure disable asla usage flex algo	1358
Configure enable asla strict flex algo	1359
Configure enable asla usage all apps	1359
Configure enable flex algo routing	1360
Configure enable flex algo readvertise	1360
Configure disable flex algo cspf	1360
Configure enable flex algo adjacency sid	1361
Configure enable flex algo strict adjacency sid	1361
Configure enable flex algo backup adjacency sid	1362
Configure enable flex algo qos policy	1362
Configure enable flex algo bgp ls	1363
Configure authentication send only	1363
Configure isis-instance authentication-send-only	1364
Configure distribute bgp ls	1364
Configure isis-instance distribute-bgp-ls	1365
Configure distance	1365

Configure dynamic host name	1366
Configure ignore lsp errors	1366
Configure lfa hold timer	1367
Configure level capability	1367
Configure isis-instance authentication-send-only	1368
Configure incremental spf levels	1369
Configure priority tag	1369
Configure isis-instance enable-cspf-capability	1370
Configure enable bfd all interfaces	1370
Configure maximum area addresses	1371
Configure context name	1371
Configure area password	1372
Configure sequence number packet	1372
Configure net	1373
Configure domain password	1373
Configure domain snp	1374
Configure style	1375
Configure level number	1375
Configure metric style	1376
Configure metric style	1377
Configure metric style	1377
Configure metric level-number	1378
Configure lsp refresh interval	1379
Configure lsp lifetime interval	1379
Configure ipv4 router id	1380
Configure ipv6 router id	1380
Configure enable	1381
Configure level 1 acl	1382
Configure level-2-into-1-redistributes enable	1382
Configure level 2 acl	1383
Configure originate	1384
Configure route map name	1384
Configure afi name	1385
Configure address-family-ipv6 afi-name	1385
Configure address-family-ipv6 disable-adjacency-check	1386
Configure administrative distance	1387
Configure ipv6 metric value	1387
Configure prefix	1388
Configure level	1389
Configure multi-topologies level	1390
Configure multi-topologies level	1390
Configure multi-topologies level	1391
Configure multi-topologies level	1392
Configure multi-topologies level	1392
Configure isisSRv6enable	1393
Configure isisSRv6LocatorName	1394
Configure system id	1394

Configure access list name	1395
Configure value	1396
Configure distance access-list-name	1397
Configure set bit on boot	1397
Configure enabled	1398
Configure level-1-into-2-redistributes enable	1399
Configure redistribute-level-1-into-2 level-1-acl	1399
Configure level-2-into-1-redistributes enable	1400
Configure redistribute-level-2-into-1 level-2-acl	1401
Configure default-route-informations originate	1401
Configure default-route-information route-map-name	1402
Configure metric value	1403
Configure metric	1404
Configure id	1405
Configure metric type	1405
Configure passive interface all	1406
Configure name	1407
Configure disable-passive-interfaces name	1407
Configure protocol	1408
Configure fib delay	1409
Configure hold timer	1410
Configure max fib	1410
Configure level type	1411
Configure enable level 1	1412
Configure enable level 2	1412
Configure algo number	1413
Configure disable advertise definition	1413
Configure disable participate	1414
Configure flexalgo metric-type	1415
Configure calculation type	1415
Configure priority	1416
Configure exclude minimum bandwidth	1417
Configure exclude maximum delay	1417
Configure enable intf group mode bw calc.	1418
Configure reference bandwidth	1419
Configure granularity bandwidth	1419
Configure enable fast reroute	1420
Configure enable remote lfa	1420
Configure enable ti lfa	1421
Configure flexalgo enable-backup-srlg-disjoint-path	1422
Configure flexalgo enable-backup-srlg-disjoint-forced	1422
Configure enable prefix metric flag	1423
Configure fapm metric	1424
Configure maximum ecmp paths	1424
Configure affinity eag exclude any	1425
Configure affinity eag include any	1426
Configure affinity eag include all	1426

Configure affinity eag reverse exclude any	1427
Configure affinity eag reverse include any	1428
Configure affinity eag reverse include all	1428
Configure affinity ag exclude any	1429
Configure affinity ag include any	1430
Configure affinity ag include all	1430
Configure affinity ag reverse exclude any	1431
Configure affinity ag reverse include any	1432
Configure affinity ag reverse include all	1432
Configure exclude srlg	1433
Configure bandwidth threshold	1434
Configure threshold metric	1434
Configure flexalgo-microloop-avoidances level-type	1435
Configure flexalgo-microloop-avoidance enable	1436
Configure options	1437
Configure enable hello	1437
Configure cspf	1438
clear clns is-neighbors System-ID	1438
clear clns neighbors	1438
clear ip isis (WORD) route (redistribution all)	1439
clear ipv6 isis (WORD) route (redistribution all)	1439
clear isis (WORD) process	1439
clear isis counter	1440
clear isis te-global counter ((ilm route-ftn trunk-ftn bypass-ftn))	1440
clear isis adjacency * (vrf VRFNAME)	1440
clear isis WORD adjacency * (vrf VRFNAME)	1440
clear isis WORD adjacency (IFNAME) (vrf VRFNAME)	1441
clear isis adjacency (IFNAME) (vrf VRFNAME)	1441
clear isis WORD adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME)	1441
clear isis adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME)	1442
snmp restart isis	1442
debug isis (ifsm nfsm pdu lsp spf events nsm checksum authentication local-updates protocol-errors bfd mpls rib sr lfa dist-ls tilfa ofib asla flexalgo micro-loop-avoidance all)	1442
no debug isis (ifsm nfsm pdu lsp spf events nsm checksum authentication local-updates protocol-errors bfd mpls rib sr lfa dist-ls tilfa ofib asla flexalgo micro-loop-avoidance all)	1443
debug isis spf-trace	1443
no debug isis spf-trace	1443
debug isis hello	1444
no debug isis hello	1444
debug isis hello interface IFNAME	1444
no debug isis hello interface IFNAME	1444
debug isis hello System-ID	1445
no debug isis hello System-ID	1445
no debug all isis	1445
debug isis cspf (events hexdump)	1445

no debug isis cspf (events hexdump)	1446
IPI-ISIS-LSP	1446
Configure spf max delay	1446
Configure lsp max wait interval	1447
Configure lsp mtu size	1448
Configure wait timer	1448
Configure restart timer	1449
Configure instance	1450
Configure type	1450
Configure mode	1451
Configure key chain	1452
IPI-ISIS-EXTENDED	1452
Configure remote lfa protocol	1452
Configure name	1453
Configure enable all prefixes	1454
Configure protocol	1455
Configure preference index	1455
Configure grace period	1456
Configure enable helper only	1457
Configure suppress adjacency	1457
restart isis graceful (grace-period <1-65535>)	1457
IPI-ISIS-SR	1458
Configure receive disable	1458
Configure enabled	1458
Configure advertise local	1459
Configure global block base	1460
Configure entropy label	1460
IPI-ISIS-INTERFACE	1461
Configure minimal	1461
Configure name	1461
Configure send only	1462
Configure interface send-only	1462
Configure interface minimal	1463
Configure interface send-only	1464
Configure maximum bandwidth flex algo	1464
Configure disable asla usage flex algo	1465
Configure disable padding	1465
Configure network type	1466
Configure circuit type	1466
Configure ipv4 instance tag	1467
Configure ipv6 instance tag	1467
Configure lsp interval	1468
Configure retransmit interval	1469
Configure mesh group id	1469
Configure delay normalize interval	1470
Configure delay normalize offset	1470
Configure enable	1471

Configure disable	1472
Configure disable level 1	1472
Configure disable level 2	1473
Configure hello interval	1473
Configure hello multiplier	1474
Configure csnp interval	1475
Configure priority	1476
Configure metric	1476
Configure password	1477
Configure tag	1478
Configure wide metric	1479
Configure te metric	1479
Configure restart hello interval	1480
Configure te metric flex algo ipv4	1481
Configure te metric flex algo ipv6	1481
Configure bandwidth metric ipv4	1482
Configure bandwidth metric ipv6	1483
Configure bandwidth metric flex algo ipv4	1484
Configure bandwidth metric flex algo ipv6	1484
Configure te minimum delay	1485
Configure te maximum delay	1486
Configure te minimum delay flex algo	1486
Configure te maximum delay flex algo	1487
Configure extended admin group flex algo	1488
Configure extended admin group flex algo anomaly	1489
Configure admin group flex algo	1489
Configure admin group flex algo anomaly	1490
Configure shared risk link group flex algo	1491
Configure mode	1491
Configure key chain	1492
Configure hold timer	1493
clear isis interface counter (IFNAME)	1494
IPI-KEYCHAIN	1494
Configure name	1494
Configure key id	1494
Configure key string	1495
Configure encrypted	1496
IPI-PIM	1496
Configure bfd	1496
IPI-PIM-IPV4	1497
Configure router id	1497
Configure join prune interval	1497
Configure ecmp bundle	1498
Configure enable bfd all interfaces	1498
Configure register reachability check	1499
Configure rate limit	1499
Configure suppress interval	1500

Configure keep alive interval	1501
Configure source address	1501
Configure accept register.	1502
Configure ignore rp set priority.	1503
Configure cisco bsr interop enable	1503
Configure access control list	1504
Configure cisco register checksum enable	1505
Configure vrf name	1505
Configure enable	1506
Configure range policy.	1507
Configure member rp address	1507
Configure rp address	1508
Configure override dynamically learned rp	1509
Configure static-rp-default access-control-list	1509
Configure static-rp-default override-dynamically-learned-rp	1510
Configure interface name.	1511
Configure hash mask length	1512
Configure priority	1512
Configure bsr-candidate interface-name	1513
Configure rp-candidates interface-name	1514
Configure advertisement interval.	1515
Configure originator id	1516
Configure group address	1516
Configure address	1517
Configure mesh group	1518
Configure default peer	1519
Configure prefix list	1520
Configure peer source-address	1520
Configure password	1521
Configure options.	1522
Configure passive enable	1523
Configure pim mode.	1523
Configure bsr border	1524
Configure dr priority	1524
Configure hello interval	1525
Configure hello holdtime	1525
Configure exclude generated id	1526
Configure unicast bootstrap router.	1527
Configure neighbor access control list filter	1527
Configure state refresh origination interval	1528
Configure name	1528
Configure propagation delay	1529
Configure enable bfd	1529
Configure virtual router id.	1530
Configure vrrp virtual-router-id	1531
snmp restart pim	1531
clear ip pim (vrf NAME) (sparse-mode) bsr rp-set *	1532

clear ip mroute (vrf NAME) * pim (dense-mode sparse-mode)	1532
clear ip mroute (vrf NAME) A.B.C.D pim sparse-mode	1532
clear ip mroute (vrf NAME) A.B.C.D A.B.C.D pim (dense-mode sparse-mode)	1533
clear ip msdp (vrf NAME) peer (A.B.C.D)	1533
clear ip msdp (vrf NAME) sa-cache (A.B.C.D)	1534
debug ip pim (vrf NAME) (all events packet packet in packet out state mfc timer timer hello timer bsr timer joinprune timer hello ht timer hello nlt timer hello tht timer joinprune jt timer joinprune et timer joinprune ppt timer joinprune kat timer joinprune ot timer assert timer register timer bsr bst timer bsr crp mib nsm nexthop mtrace msdp)	1534
no debug ip pim (vrf NAME) (all events packet packet in packet out state mfc timer timer hello timer bsr timer joinprune timer hello ht timer hello nlt timer hello tht timer joinprune jt timer joinprune et timer joinprune ppt timer joinprune kat timer joinprune ot timer assert timer register timer bsr bst timer bsr crp mib nsm nexthop mtrace msdp)	1535
debug ip pim (vrf NAME)	1535
no debug ip pim (vrf NAME)	1536
IPI-PIM-IPV6	1536
Configure router id	1536
Configure join prune interval	1537
Configure ecmp bundle	1537
Configure enable bfd all interfaces	1538
Configure register reachability check	1538
Configure rate limit	1539
Configure suppress interval	1539
Configure keep alive interval	1540
Configure source address	1541
Configure accept register	1541
Configure ignore rp set priority	1542
Configure cisco bsr interop enable	1543
Configure access control list	1543
Configure cisco register checksum enable	1544
Configure vrf name	1545
Configure enable	1545
Configure range policy	1546
Configure member rp address	1547
Configure embed rp	1547
Configure rp address	1548
Configure override dynamically learned rp	1549
Configure static-rp-default access-control-list	1549
Configure static-rp-default override-dynamically-learned-rp	1550
Configure interface name	1551
Configure hash mask length	1552
Configure priority	1552
Configure bsr-candidate interface-name	1553
Configure rp-candidates interface-name	1554
Configure advertisement interval	1555
Configure options	1556
Configure passive enable	1556
Configure pim mode	1557

Configure bsr border	1558
Configure dr priority	1558
Configure hello interval	1559
Configure hello holdtime	1559
Configure exclude generated id	1560
Configure unicast bootstrap router	1560
Configure neighbor access control list filter	1561
Configure state refresh origination interval	1561
Configure name	1562
Configure propagation delay	1562
Configure enable bfd	1563
clear ipv6 pim (vrf NAME) (sparse-mode) bsr rp-set *	1564
clear ipv6 mroute (vrf NAME) * pim (dense-mode sparse-mode)	1564
clear ipv6 mroute (vrf NAME) X:X::X:X pim sparse-mode	1564
clear ipv6 mroute (vrf NAME) X:X::X:X X:X::X:X pim (dense-mode sparse-mode)	1565
debug pim bfd	1565
no debug pim bfd	1566
debug ipv6 pim (vrf NAME) (all events packet packet in packet out state mfc timer timer hello timer bsr timer joinprune timer hello ht timer hello nlt timer hello tht timer joinprune jt timer joinprune et timer joinprune ppt timer joinprune kat timer joinprune ot timer assert timer register timer bsr bst timer bsr crp mib nsm nexthop mtrace)	1566
no debug ipv6 pim (vrf NAME) (all events packet packet in packet out state mfc timer timer hello timer bsr timer joinprune timer hello ht timer hello nlt timer hello tht timer joinprune jt timer joinprune et timer joinprune ppt timer joinprune kat timer joinprune ot timer assert timer register timer bsr bst timer bsr crp mib nsm nexthop mtrace)	1566
debug ipv6 pim (vrf NAME)	1567
no debug ipv6 pim (vrf NAME)	1567
IPI-VXLAN	1568
Configure mac address	1568
Configure enable vxlan	1568
Configure vtep ipv4	1569
Configure mac ageing timer	1569
Configure arp nd refresh timer	1569
Configure traffic direction	1570
Configure tenant type	1570
Configure xconnect identifier	1571
Configure vrf name	1572
Configure map network	1572
Configure mac hold timer	1573
Configure tenant description	1573
Configure irb name	1574
Configure evi learning limit	1574
Configure irb advertise host route	1574
Configure vxlan identifier	1575
Configure address	1576
Configure description	1576
Configure redund type	1577
clear mac address-table dynamic vxlan	1577

clear mac address-table dynamic vxlan vnid <1-16777215> (address MACADDR) . . .	1577
clear nvo vxlan tunnels	1578
clear nvo vxlan tunnels dst-ip A.B.C.D.	1578
clear nvo vxlan mac-stale-entries (vnid <1-16777215>)	1578
clear nvo vxlan counters access-port port IFNAME	1579
clear nvo vxlan counters access-port all	1579
clear nvo vxlan counters network-port dst A.B.C.D	1579
clear nvo vxlan counters network-port all	1579
IPI-ETHERNET-VPN	1580
Configure esi hold time	1580
Configure enable vxlan multihoming	1580
Configure global enable-vxlan-multihoming	1580
Configure enable evpn mpls multihoming	1581
Configure enable evpn srv6 multihoming	1581
Configure enable irb	1582
Configure enable mpls irb	1582
Configure enable evpn etree	1582
Configure enable evpn storm control	1583
Configure mac seq zero handle	1583
Configure mac address	1584
Configure gateway mac	1584
Configure freeze time	1584
Configure max mac move count	1585
Configure duration	1586
Configure mac-move-count freeze-time	1586
Configure redundancy mode	1587
Configure name	1587
Configure evpn mac holdtime	1588
Configure service carving	1588
Configure preference weight	1589
Configure ac driven	1589
Configure access if	1590
Configure dynamic learning disable	1591
Configure arp nd flood suppress	1591
Configure cos	1592
Configure arp cache disable	1593
Configure nd cache disable	1593
Configure mac hold time	1594
Configure access-interface mac-address	1595
Configure garp gna enable	1595
Configure llf enable	1596
Configure ac learning limit	1597
Configure evpn identifier	1597
Configure evpn-id-mappings evpn-identifier	1598
Configure evpn etree leaf	1599
Configure ipv4 address	1600
Configure interfaces name	1600

Configure ipv6 address	1601
Configure interfaces name	1602
Configure service type	1603
IPI-TFO	1603
Configure admin status	1603
Configure link type	1604
Configure fog id	1604
Configure group id	1605
Configure failover trigger count	1606
clear tfo counter	1606
clear tfo counter fog <1-64>	1606
IPI-LOGGING	1607
Configure severity level	1607
Configure enable logging	1607
Configure console-logging severity-level	1608
Configure max file size	1608
Configure file name	1609
Configure debug-logfile max-file-size	1609
Configure timestamp granularity	1610
Configure cli timestamp	1610
Configure disable all modules debug	1610
Configure enable	1611
Configure buffer size	1611
Configure module name	1612
Configure bdr-module-logging severity-level	1612
Configure suppress non bdr logs	1613
Configure disable suppress repeated logs	1613
no debug all	1614
clear debug logfile	1614
clear logging logfile	1614
remove file (techsupport) (all FILENAME)	1614
IPI-LOGGING-REMOTE	1615
Configure enable	1615
Configure enable rsyslog	1615
Configure port	1616
Configure severity	1616
Configure disable default instance	1617
Configure remote server facility	1618
Configure remote authpriv facility	1618
IPI-LOGGING-CLI	1618
Configure enable logging	1618
Configure cli-logging enable-logging	1619
IPI-EVENT-MANAGER	1619
Configure feature	1619
Configure event pattern	1620
Configure action script	1620
Configure action name	1621

clear event-manager statistics all	1622
clear event-manager statistics policy NAME	1622
IPI-LOGGING-FAULT-MANAGEMENT	1622
Configure severity	1622
Configure enable fault management	1623
fault-management flush-db	1623
fault-management shelve ALARM-TYPE	1623
fault-management close ACTIVE-ALARM-ID	1623
IPI-DHCP	1624
Configure disable dhcp feature	1624
Configure template name	1624
Configure policy action	1625
Configure circuit id	1625
Configure remote id	1626
IPI-RADIUS	1626
Configure vrf name	1626
Configure timeout	1627
Configure sequence number	1627
Configure secret key string	1628
Configure accounting port	1629
Configure host address	1630
Configure authentication port	1631
Configure key type	1632
Configure server timeout	1633
Configure server timeout	1634
Configure server timeout	1635
Configure server authentication-port	1636
Configure server accounting-port	1637
Configure server timeout	1638
Configure server timeout	1639
Configure server accounting-port	1640
Configure server timeout	1641
Configure server timeout	1641
Configure enable	1642
clear radius-server counters (vrf (management NAME))	1643
clear radius-server host (A.B.C.D X:X::X:X HOSTNAME) counters (vrf (management NAME all))	1643
debug radius	1643
no debug radius	1644
IPI-USER-MANAGEMENT	1644
Configure enable	1644
Configure password hashing algorithm	1644
Configure disable default user	1645
Configure username	1645
Configure role	1646
Configure password	1646
Configure password hashed	1647

Configure rbac role	1647
Configure user password	1648
Configure user password-hashed	1648
Configure user password	1649
Configure user password-hashed	1649
Configure root password	1650
Configure root password hashed	1650
debug user-mgmt	1651
no debug user-mgmt	1651
IPI-SSH	1651
Configure enable	1651
Configure vrf name	1652
Configure port	1652
Configure max login attempts	1653
Configure session limit	1653
Configure default algorithm	1654
Configure chacha20 poly1305	1654
Configure sntrup761x25519 sha512 openssh	1656
Configure umac 128 etm	1657
Configure ssh rsa	1659
Configure disable default instance	1660
Configure public key	1660
debug ssh server	1661
no debug ssh server	1661
clear ssh hosts	1661
ssh keygen host dsa (vrf (NAME management)) (force)	1661
ssh keygen host rsa (length <1024-4096>) (vrf (NAME management)) (force)	1662
ssh keygen host ecdsa (length (256 384 521)) (vrf (NAME management)) (force)	1662
ssh keygen host ed25519 (vrf (NAME management)) (force)	1663
clear ssh host-key ((dsa rsa ecdsa ed25519)) (vrf (NAME management))	1663
username USERNAME keypair rsa (length <1024-4096>) (force)	1664
username USERNAME keypair dsa (force)	1664
clear ssh keypair user USERNAME	1664
IPI-TELNET	1665
Configure enable	1665
Configure vrf name	1665
Configure port	1666
Configure session limit	1666
debug telnet server	1667
no debug telnet server	1667
IPI-NTP	1667
Configure disable ntp	1667
Configure vrf name	1668
Configure enable logging	1668
Configure enable local master	1669
Configure local stratum	1669
Configure enable ntp auth	1670

Configure ntp trusted keys	1670
Configure ntp request key	1671
Configure key id	1672
Configure key value	1672
Configure prefer	1673
Configure server address	1674
Configure peer address	1675
Configure peer peer-address	1676
Configure minimum pkt spacing	1677
Configure netmask	1677
Configure access options	1678
Configure client ip address	1678
Configure access-control-entry client-ip-address	1679
Configure enable	1680
Configure disable default instance	1680
ntp sync-retry (vrf (management NAME))	1680
debug ntp	1681
no debug ntp	1681
IPI-AAA	1681
Configure authentication method rule	1681
Configure vrf name	1682
Configure vrf authentication-method-rule	1682
Configure vrf authentication-method-rule	1683
Configure accounting method rule	1683
Configure vrf accounting-method-rule	1684
Configure authorization method rule	1684
Configure vrf authorization-method-rule	1684
Configure error enable	1685
Configure enable fallback	1685
Configure group type	1686
Configure host address	1687
Configure aaa-authentication-console authentication-method-rule	1687
Configure aaa-authentication-console authentication-method-rule	1688
Configure aaa-authentication-console authentication-method-rule	1688
Configure aaa-authentication-console authentication-method-rule	1689
Configure aaa-authentication-console authorization-method-rule	1689
Configure aaa-authentication-console authorization-method-rule	1689
Configure aaa-authentication-console accounting-method-rule	1690
Configure aaa-authentication-console accounting-method-rule	1690
Configure user non existent	1691
Configure authentication max failure attempts	1691
Configure local user unlock timeout	1691
Configure enable	1692
Configure numeric count	1692
Configure uppercase count	1693
Configure lowercase count	1693
Configure special count	1694

Configure history	1694
Configure maxsequence	1695
Configure disable usercheck	1695
Configure maxrepeat	1695
Configure min length	1696
Configure role	1696
Configure user	1697
Configure debug enable.	1698
debug aaa	1698
no debug aaa	1698
clear aaa local user lockout username USERNAME	1698
IPI-DHCP-RELAY	1699
Configure disable dhcpv4 relay	1699
Configure disable dhcpv6 relay	1699
Configure gi addr	1700
Configure src ip addr	1700
Configure ipv6 gi addr	1701
Configure ipv6 src addr	1701
Configure ipv4 relay interface	1702
Configure ipv4 uplink interface.	1703
Configure ipv4 group name	1703
Configure ipv6 relay interface	1704
Configure ipv6 uplink interface.	1704
Configure ipv6 group name	1705
Configure link selection source ip	1705
Configure enable option82.	1706
Configure enable dhcpv6 pd route injection.	1706
Configure remote id	1707
Configure vrf name	1707
Configure vrf remote-id	1708
Configure vrf remote-id	1708
Configure option82 template name	1709
Configure vrf option82-template-name	1710
Configure enable option82 always on	1710
Configure vrf enable-option82-always-on	1711
Configure ipv4 subscriber id	1711
Configure vrf ipv4-subscriber-id	1712
Configure subscriber id	1712
Configure vrf link-selection-source-ip.	1713
Configure vrf enable-option82	1713
Configure vrf enable-dhcpv6-pd-route-injection.	1714
Configure enable dhcpv6 duplicate clients	1715
Configure vrf subscriber-id.	1715
Configure interface type.	1716
Configure interface direction	1716
Configure interface type v6	1717
Configure interface direction v6	1718

Configure ip address	1718
Configure ipv4-dhcp-servers ip-address	1719
Configure dhcpv4 server global vrf	1720
Configure ipv4-dhcp-server dhcpv4-server-global-vrf	1720
Configure ipv6 address	1721
Configure ipv6-dhcp-servers ipv6-address	1722
Configure dhcpv6 server global vrf	1722
Configure ipv6-dhcp-server dhcpv6-server-global-vrf	1723
Configure group name	1724
Configure dhcp-groups group-name	1724
Configure server	1725
Configure group6 name	1726
Configure dhcpv6-groups group6-name	1727
Configure dhcpv6-group server	1727
clear ip dhcp relay statistics	1728
clear ip dhcp relay option statistics	1728
clear ipv6 dhcp pd-route (vrf NAME)).	1728
IPI-DNS-RELAY	1729
Configure enable dns feature.	1729
Configure dns-relay enable-dns-feature	1729
Configure enable dnsv4 relay	1729
Configure dns-relay enable-dnsv4-relay	1730
Configure enable dnsv6 relay	1730
Configure dns-relay enable-dnsv6-relay	1730
Configure disable dnssec validation	1731
Configure dns server v4 addr.	1731
Configure dns server v6 addr.	1731
Configure name	1732
Configure interface enable-dnsv6-relay	1732
Configure dns relay uplink	1733
Configure dns relay v6 uplink.	1733
Configure vrf name	1734
Configure vrf dns-server-v4-addr.	1734
Configure vrf dns-server-v6-addr.	1735
IPI-DNS-CLIENT	1735
Configure default domain name.	1735
Configure vrf name	1736
Configure address	1736
Configure domain name.	1737
Configure ipv6 address	1737
Configure ipv4 address	1738
Configure hostname.	1739
Configure host-entry ipv6-address.	1739
Configure enable	1740
Configure disable default instance.	1740
debug dns client.	1741
no debug dns client	1741

IPI-DHCP-CLIENT	1741
Configure request ipv4 dns	1741
Configure request log server	1742
Configure request host name	1742
Configure request ntp server	1743
Configure request ipv6 dns	1743
Configure request ipv6 domain list	1744
Configure request ipv6 ntp server	1744
Configure request ipv6 rapid commit	1745
Configure request ipv6 vendor opts	1745
Configure ipv6 information request	1746
Configure ipv6 dad wait time	1746
Configure ipv6 client duid type	1747
Configure ipv6 max delegated prefix	1747
Configure request ipv6 prefix	1748
Configure suffix ipv6 addr	1748
IPI-DHCP-SERVER	1749
Configure enable ipv4 server	1749
Configure enable ipv6 server	1750
Configure max lease time	1750
Configure default lease time	1751
Configure rapid commit	1751
Configure preference	1752
Configure vrf name	1752
Configure vrf preference	1753
Configure vrf max-lease-time	1753
Configure vrf default-lease-time	1754
Configure pool name	1755
Configure dhcp-pools pool-name	1755
Configure host name	1756
Configure routers	1757
Configure ntp server	1757
Configure boot file	1758
Configure tftp server	1759
Configure log server	1759
Configure dns server	1760
Configure netmask	1761
Configure high address in range	1761
Configure pool6 name	1762
Configure dhcp6-pools pool6-name	1763
Configure domain name	1763
Configure vendor options	1764
Configure dhcp6-pool ntp-server	1765
Configure dhcp6-pool dns-server	1766
Configure ipv6 netmask	1766
Configure low address in range	1767
Configure temporary address	1768

Configure ipv6 prefix netmask	1769
IPI-SFLOW	1770
Configure enabled	1770
Configure source address	1770
Configure vrf name	1770
Configure max entries	1771
Configure options	1772
Configure polling interval	1772
Configure update port pvid	1773
Configure sampling direction	1773
Configure rate	1774
Configure max header size	1774
clear access-list log-cache	1775
debug sflow (agent[sampling polling all])	1775
no debug sflow (agent[sampling polling all])	1776
IPI-SFLOW-INTERFACE	1776
Configure disable collector id	1776
Configure enabled	1777
Configure polling interval	1777
Configure sampling direction	1778
Configure rate	1779
Configure max header size	1779
Configure disabled	1780
clear sflow statistics (interface IFNAME)	1781
clear dynamic-load-balance monitor events	1781
IPI-SFLOW-IPFIX	1782
Configure exporter name	1782
Configure collector port	1782
Configure collector vrf	1783
Configure collector ip	1783
Configure source if	1784
Configure ip-flow-exporter collector-ip	1784
Configure template id	1785
Configure template refresh interval	1785
Configure samples per message	1786
Configure monitor name	1786
Configure flow exporter	1787
Configure sampling rate	1787
Configure observation domain id	1788
Configure flow monitor	1788
IPI-WATCHDOG	1789
Configure watchdog disabled	1789
Configure keepalive interval	1789
Configure module watchdog status disabled	1790
clear cores (WORD)	1790
sys-update un-install	1791
sys-container (raon) (install update) file FILENAME	1791

sys-container (raon) un-install	1791
sys-container (raon) (start stop restart)	1792
sys-container (raon) get URL (source-interface IFNAME)	1792
sys-container (raon) remove file FILENAME	1792
sys-container (raon) verify image FILEPATH signature FILEPATH	1793
sys-container cancel download	1793
IPI-MRIB-IPV4	1793
Configure multicast routing enable	1793
Configure maximum routes	1794
Configure warning threshold	1795
Configure options.	1795
Configure ttl threshold	1796
debug ip mrib (vrf WORD) (all event vif mrt stats fib-msg register-msg nsm-msg mrib- msg mtrace mtrace-detail)	1796
no debug ip mrib (vrf WORD) (all event vif mrt stats fib-msg register-msg nsm-msg mrib- msg mtrace mtrace-detail)	1797
clear ip mroute (vrf NAME) *	1797
clear ip mroute (vrf NAME) A.B.C.D	1798
clear ip mroute (vrf NAME) A.B.C.D A.B.C.D	1798
clear ip mroute (vrf NAME) statistics *	1798
clear ip mroute (vrf NAME) statistics A.B.C.D	1799
clear ip mroute (vrf NAME) statistics A.B.C.D A.B.C.D	1799
snmp restart mrib	1800
IPI-MRIB-IPV6	1800
Configure multicast routing enable	1800
Configure maximum routes	1800
Configure warning threshold	1801
Configure options.	1802
debug ipv6 mrib (vrf WORD) (all event vif mrt stats fib-msg register-msg nsm-msg mrib- msg mtrace mtrace-detail)	1802
no debug ipv6 mrib (vrf WORD) (all event vif mrt stats fib-msg register-msg nsm-msg mrib- msg mtrace mtrace-detail)	1803
clear ipv6 mroute (vrf NAME) *	1803
clear ipv6 mroute (vrf NAME) X:X::X:X	1804
clear ipv6 mroute (vrf NAME) X:X::X:X X:X::X:X	1804
clear ipv6 mroute (vrf NAME) statistics *	1804
clear ipv6 mroute (vrf NAME) statistics X:X::X:X	1805
clear ipv6 mroute (vrf NAME) statistics X:X::X:X X:X::X:X	1805
IPI-IGMP	1806
Configure disable ssm map	1806
Configure disable tos check.	1806
Configure limit exception acl	1807
Configure member limit	1807
Configure source	1808
Configure options.	1809
debug ip igmp (vrf NAME) (all decode encode events fsm tib)	1809
no debug ip igmp (vrf NAME) (all decode encode events fsm tib)	1810

clear ip igmp (vrf NAME)	1810
clear ip igmp (vrf NAME) group *	1810
clear ip igmp (vrf NAME) group A.B.C.D IFNAME	1811
clear ip igmp (vrf NAME) interface IFNAME	1811
clear ip igmp (vrf NAME) group A.B.C.D	1812
IPI-IGMP-INTERFACE	1812
Configure offlink log suppress	1812
Configure enabled	1813
Configure last member query count.	1813
Configure last member query interval	1814
Configure querier timeout	1814
Configure query interval.	1815
Configure query max response time	1815
Configure startup query interval.	1816
Configure startup query count	1816
Configure robustness variable	1817
Configure version.	1817
Configure require router alert option	1818
Configure enable proxy service	1818
Configure mroute proxy interface.	1819
Configure unsolicited report interval	1820
Configure limit exception acl	1820
Configure member limit	1821
Configure access group name	1822
Configure immediate leave groups list.	1822
Configure group address	1823
Configure source	1823
Configure name	1824
Configure ssm-join-groups source.	1825
IPI-IGMP-SNOOPING	1825
Configure disable igmp snooping.	1825
Configure disable report suppression	1826
Configure unknown multicast action	1826
Configure options.	1827
Configure igmp snooping	1827
Configure report suppression.	1828
Configure enable fast leave	1828
Configure mrouter interface name	1829
Configure enable querier	1829
Configure name	1830
Configure interface enable-fast-leave	1830
Configure interface report-suppression	1831
Configure interface mrouter-interface-name	1831
Configure interface enable-querier	1832
Configure source address	1832
Configure group address	1833
clear igmp snooping group A.B.C.D IFNAME	1834

clear igmp snooping interface IFNAME	1834
clear igmp snooping group *	1834
clear igmp snooping	1835
clear igmp snooping group A.B.C.D.	1835
debug igmp snooping (decode encode events fsm tib all)	1835
no debug igmp snooping (decode encode events fsm tib all)	1835
IPI-MLD-SNOOPING	1836
Configure disable mld snooping	1836
Configure disable report suppression	1836
Configure options	1837
Configure report suppression	1837
Configure mld snooping	1837
Configure enable fast leave	1838
Configure name	1838
Configure mrouter interface name	1839
Configure enable querier	1839
debug mld snooping (decode encode events fsm tib all)	1840
no debug mld snooping (decode encode events fsm tib all)	1840
clear mld snooping group X:X::X:X IFNAME	1840
clear mld snooping interface IFNAME	1841
clear mld snooping group X:X::X:X	1841
clear mld snooping group *	1841
clear mld snooping	1842
IPI-MLD	1842
Configure disable ssm map	1842
Configure limit exception acl	1842
Configure member limit	1843
Configure source	1844
Configure debug options	1844
debug ipv6 mld (vrf NAME) (all decode encode events fsm tib)	1845
no debug ipv6 mld (vrf NAME) (all decode encode events fsm tib)	1845
clear ipv6 mld (vrf NAME)	1846
clear ipv6 mld (vrf NAME) group *	1846
clear ipv6 mld (vrf NAME) group X:X::X:X IFNAME	1846
clear ipv6 mld (vrf NAME) interface IFNAME	1847
clear ipv6 mld (vrf NAME) group X:X::X:X	1847
IPI-MLD-INTERFACE	1848
Configure enabled	1848
Configure last member query count	1848
Configure last member query interval	1849
Configure querier timeout	1849
Configure query interval	1850
Configure query max response time	1851
Configure startup query interval	1851
Configure startup query count	1852
Configure robustness variable	1852
Configure version	1853

Configure enable proxy service	1853
Configure mroute proxy interface	1854
Configure unsolicited report interval	1854
Configure limit exception acl	1855
Configure member limit	1856
Configure access group name	1856
Configure immediate leave groups list	1857
Configure group address	1858
Configure source	1858
IPI-ROUTEMAP	1859
Configure action	1859
Configure continue to next sequence	1860
Configure next sequence number	1860
Configure interface name	1861
Configure metric	1861
Configure vlan id	1862
Configure mac access list name	1862
Configure tag	1863
Configure route type	1864
Configure as path name	1864
Configure route origin	1865
Configure rpki state	1866
Configure evpn route type	1866
Configure route map	1867
Configure packet max length	1867
Configure community identifier	1868
Configure extended community identifier	1869
Configure match type	1870
Configure large community list identifier	1870
Configure ip access list name	1871
Configure ip prefix list name	1872
Configure peer access list name	1872
Configure next hop prefix list name	1873
Configure next hop access list name	1874
Configure ipv6 address access list name	1874
Configure ipv6 prefix list name	1875
Configure routemap name	1876
Configure sequence id	1876
Configure next hop match string	1877
Configure mac list name	1877
Configure metric value	1878
Configure forward interface type	1879
Configure route tag	1879
Configure weight	1880
Configure local preference	1881
Configure route origin type	1881
Configure metric type	1882

Configure aigp metric	1882
Configure level type	1883
Configure enable as path tag	1883
Configure atomic aggregate	1884
Configure delete community value	1885
Configure delete large community value	1885
Configure bgp originator id	1886
Configure as path prepend	1886
Configure ext community site of origin	1887
Configure ext community color	1888
Configure track id	1888
Configure ip nexthop address	1889
Configure use peer address	1890
Configure ip nexthop self	1890
Configure default nexthop address	1891
Configure vpnv4 nexthop address	1891
Configure ipv6 nexthop address	1892
Configure ipv6 ipv6-nexthop-address	1893
Configure default ipv6 nexthop address	1893
Configure local ipv6 nexthop address	1894
Configure aggregator ip address	1895
Configure ext community rt	1895
Configure cost value	1896
Configure max suppress time limit	1897
Configure unreachable half life time	1898
Configure enable dampening	1899
Configure community with as number	1900
Configure large community number set	1901
IPI-RIP	1902
Configure options	1902
Configure split horizon	1902
Configure name	1902
Configure disable receive packet	1903
Configure disable send packet	1903
Configure receive version	1904
Configure send version	1904
Configure auth mode	1905
Configure auth string	1905
Configure auth keychain	1906
Configure rip enabled	1906
Configure bfd enable	1907
Configure receive buffer size	1907
Configure passive interfaces	1907
Configure static routes	1908
Configure neighbors	1908
Configure neighbor fall over bfd	1909
Configure enable cisco metric behavior	1909

Configure default metric.	1909
Configure version.	1910
Configure distance.	1910
Configure network interfaces.	1911
Configure network routes.	1911
Configure access list name.	1911
Configure route table update interval.	1912
Configure warning threshold percentage.	1913
Configure route type.	1913
Configure route map.	1914
Configure metric.	1914
Configure redistribute-policy route-map.	1915
Configure originate.	1915
Configure direction.	1916
Configure distribute-filter-list direction.	1917
Configure distribute-prefix-list direction.	1917
Configure offset-list metric.	1918
Configure distribute-filter-list direction.	1918
Configure distribute-prefix-list direction.	1919
clear ip rip route (connected static ospf isis bgp rip all).	1920
clear ip rip route A.B.C.D/M.	1920
clear ip rip statistics (IFNAME).	1920
snmp restart rip.	1921
debug rip (all events packet send packet recv packet packet detail nsm rib bfd).	1921
no debug rip (all events packet send packet recv packet packet detail nsm rib bfd).	1921
IPI-RIP-VRF.	1922
Configure vrf name.	1922
Configure enable cisco metric behavior.	1922
Configure default metric.	1923
Configure version.	1923
Configure distance.	1924
Configure network interfaces.	1924
Configure network routes.	1925
Configure access list name.	1925
Configure route type.	1926
Configure route map.	1927
Configure metric.	1928
Configure redistribute-policy route-map.	1928
Configure originate.	1929
Configure direction.	1930
Configure distribute-filter-list direction.	1930
Configure distribute-prefix-list direction.	1931
Configure name.	1932
Configure distribute-filter-list direction.	1933
Configure distribute-prefix-list direction.	1934
clear ip rip route vrf NAME A.B.C.D/M.	1934
clear ip rip route vrf NAME *.	1935

IPI-PBR	1935
Configure enabled	1935
Configure route map name	1936
Configure route map v6 name	1936
clear route-map WORD pbr-statistics	1936
IPI-SNMP	1937
Configure enable link down trap	1937
Configure enable link up trap	1937
Configure include interface name	1938
Configure server-traps enable-link-down-trap	1938
Configure server-traps enable-link-down-trap	1939
Configure server-traps enable-link-up-trap	1939
Configure server-traps enable-link-up-trap	1939
Configure enable traps	1940
Configure enable trap cache	1940
Configure timeout	1941
Configure disable ping	1941
Configure max count	1942
debug (snmp send snmp receive snmp process snmp xdump snmp error-string snmp detail snmp snmp all)	1942
no debug (snmp send snmp receive snmp process snmp xdump snmp error-string snmp detail snmp snmp all)	1943
IPI-SNMP-SERVER	1943
Configure vrf name	1943
Configure system contact	1944
Configure system location	1944
Configure tcp session enabled	1945
Configure disable default instance	1945
Configure ent ipi iftable	1946
IPI-SNMP-SERVER-EXTENDED	1946
Configure include directive	1946
Configure enable	1946
Configure filter type	1947
Configure engine id	1948
Configure smux port enable	1948
Configure host name	1949
Configure notification type	1950
Configure snmp version	1951
Configure snmpv3 auth type	1952
Configure community	1953
Configure snmpv3 user	1954
Configure host vrf name	1955
Configure user name	1956
Configure authentication type	1957
Configure user type	1958
Configure encryption type	1959
Configure authentication password	1960

Configure privilege type	1961
Configure privilege password	1962
Configure vrf name	1963
Configure user user-name	1964
Configure user user-type	1965
Configure context name	1965
Configure acl name	1966
Configure community name	1967
Configure snmp group	1967
Configure access privileges	1968
Configure access	1969
Configure community context	1970
Configure group name	1970
Configure group version	1971
Configure context	1972
Configure snmpv3 group auth type	1973
debug snmp-server	1974
no debug snmp-server	1974
IPI-LDP	1974
Configure multicast hello disable	1974
Configure ldp instance	1975
Configure router identifier	1975
Configure pseudowire status tlv	1976
Configure rfa ilm optimization	1976
Configure entropy label capability enable	1976
Configure advertise label for default route	1977
Configure import bgp routes	1977
Configure ldp optimization	1978
Configure explicit null	1978
Configure global merge	1978
Configure propagate release	1979
Configure fast reroute	1979
Configure prefer tunnel in tunnel	1980
Configure ignore mac withdraw bad pdu length	1980
Configure rfa tunnels	1980
Configure auto targeted session	1981
Configure control mode	1981
Configure retention mode	1982
Configure advertisement mode	1982
Configure hello interval	1983
Configure hello holdtime	1983
Configure keepalive interval	1984
Configure keepalive timeout	1984
Configure request retry timeout	1985
Configure request retry	1985
Configure label request policy ipv4	1986
Configure loop detection enable	1986

Configure path vector limit	1987
Configure hop count limit	1987
Configure session protection enable	1988
Configure duration	1988
Configure session protection prefix list name	1989
Configure session-protection duration	1989
Configure ldp	1990
Configure dev	1990
Configure enable	1991
Configure neighbor liveness time	1991
Configure max recovery time	1992
Configure inter area acl name	1992
Configure transport address ipv4	1993
Configure peer address	1993
Configure authentication-exclusions peer-address	1994
Configure group name	1994
Configure prefix list	1995
Configure auth	1995
Configure prefix access control list name	1996
Configure peer access control list name	1997
Configure tcp mss range	1997
Configure prefix control list name	1998
Configure peer control list name	1998
clear ldp statistics	1999
clear ldp statistics advertise-labels	1999
clear ldp statistics advertise-labels for PREFIX	1999
clear ldp statistics advertise-labels for PREFIX to PEER	1999
clear ldp session *	2000
clear ldp session A.B.C.D	2000
clear ldp adjacency *	2000
clear ldp adjacency A.B.C.D	2000
snmp restart ldp	2001
debug ldp (events fsm hexdump dsm usm tsm qos nsm advertise-labels cspf vc usm vc dsm graceful-restart rib inter-area packet notification packet hello packet initialization packet keepalive packet address packet label packet all)	2001
no debug ldp (events fsm hexdump dsm usm tsm qos nsm advertise-labels cspf vc usm vc dsm graceful-restart rib inter-area packet notification packet hello packet initialization packet keepalive packet address packet label packet all)	2001
restart ldp graceful	2002
IPI-LDP-INTERFACE	2002
Configure enable ldp ipv4	2002
Configure name	2002
Configure multicast hello disable	2003
Configure maximum pdu length	2003
Configure ldp igp sync delay interval	2004
Configure hello interval	2004
Configure hello holdtime	2005

Configure keepalive interval.	2006
Configure keepalive timeout	2006
Configure interface advertisement mode	2007
Configure interface retention mode	2007
IPI-LDP-PEER	2008
Configure targeted global hello interval	2008
Configure targeted global hello holdtime	2009
Configure target address	2009
Configure hello interval	2010
Configure hello holdtime	2010
Configure tunnel.	2011
IPI-QOS	2011
Configure enable qos.	2011
Configure name	2012
Configure cos value	2012
Configure remark queue id	2013
Configure queue id.	2014
Configure dscp-to-dscp-profiles name	2015
Configure color.	2015
Configure precedence-to-precedence-profiles name	2016
Configure precedence value	2017
Configure dscp-to-queue-profiles name.	2017
Configure remark dscp value	2018
Configure dscp value	2019
Configure dscp-to-queue queue-id	2020
Configure dscp-to-queue remark-dscp-value.	2021
Configure profile id.	2021
Configure exp value.	2022
Configure exp-to-queue queue-id	2023
Configure remark queue value.	2024
Configure exp-to-queue remark-queue-value	2024
Configure queue-to-exp-profiles name	2025
Configure queues-color-to-exp color	2026
Configure queue-color-to-cos-profiles name	2027
Configure queue-color-to-coses color	2027
Configure precedence-to-queue-profiles name	2028
Configure precedence-to-queue queue-id	2029
Configure remark precedence value	2029
Configure queue-color-to-dscp-profiles name	2030
Configure queue-color-to-dscps color	2031
Configure egress-dynamic-ecn-profiles name	2032
Configure on offset.	2032
Configure cos.	2033
Configure dei	2034
Configure dscp.	2034
Configure type	2035
Configure match criteria.	2035

Configure class-maps name	2036
Configure class-maps name	2037
Configure class-maps name	2037
Configure class-maps name	2038
Configure class-maps name	2038
Configure reference description	2039
Configure access control list name	2040
Configure match-any-conditions access-control-list-name	2040
Configure ethertype	2041
Configure traffic type	2042
Configure match-any-conditions cos	2042
Configure inner cos	2043
Configure vlan	2043
Configure inner vlan	2044
Configure rtp	2045
Configure mpls exp	2045
Configure match-any-conditions dscp	2046
Configure ipv6 dscp	2047
Configure precedence	2047
Configure ipv6 precedence	2048
Configure port type	2049
Configure protocol	2050
Configure ethertype all	2051
Configure traffic type all	2051
Configure cos all	2052
Configure inner cos all	2052
Configure vlan all	2053
Configure inner vlan all	2054
Configure rtp all	2054
Configure mpls exp all	2055
Configure dscp all	2056
Configure ipv6 dscp all	2056
Configure precedence all	2057
Configure ipv6 precedence all	2058
Configure port all	2058
Configure protocol all	2059
Configure class-maps-queuing name	2060
Configure class-maps-queuing name	2061
Configure class-map-queuing reference-description	2061
Configure vlan queue	2062
Configure queue	2062
Configure service template name	2063
Configure interface	2064
Configure policy map name	2064
Configure policy-maps policy-map-name	2065
Configure policy-maps policy-map-name	2065
Configure policy-maps policy-map-name	2066

Configure policy-maps policy-map-name	2066
Configure policy-map reference-description	2067
Configure class map name	2068
Configure class type	2068
Configure classes class-map-name	2069
Configure classes class-map-name	2070
Configure classes class-map-name	2071
Configure classes class-map-name	2071
Configure child service policy name	2072
Configure class reference-description	2073
Configure byte compensation	2074
Configure priority level	2074
Configure weighted fair queueing queue weight	2075
Configure weight	2076
Configure min threshold	2077
Configure min threshold unit	2078
Configure max threshold	2080
Configure max threshold unit	2081
Configure max threshold type	2083
Configure rate value	2084
Configure rate unit	2084
Configure priority	2085
Configure color value remark	2086
Configure precedence remark	2087
Configure qos-mode cos-value	2088
Configure dscp value remark	2089
Configure qos-mode queue-id	2089
Configure cir	2090
Configure police type	2091
Configure cir unit	2092
Configure eir	2093
Configure eir unit	2095
Configure police cir	2096
Configure bc	2097
Configure bc unit	2098
Configure police cir	2100
Configure police cir	2101
Configure be	2102
Configure be unit	2104
Configure police cir	2105
Configure police cir	2106
Configure police cir	2108
Configure police cir	2109
Configure police cir	2111
Configure police cir	2112
Configure police cir	2113
Configure police cir	2114

Configure police cir	2115
Configure police cir	2117
Configure police cir	2118
Configure police cir	2120
Configure police cir	2121
Configure police cir	2122
Configure police cir	2124
Configure police cir	2125
Configure police cir	2126
Configure police cir	2127
Configure police cir	2129
Configure police cir	2130
Configure police cir	2132
Configure police cir	2133
Configure police cir	2134
Configure police cir	2135
Configure copp cir unit	2137
Configure enabled	2138
Configure disabled	2138
Configure copp-service-policy policy-map-name	2139
clear qos statistics (interface IFNAME) ((type qos type qos input type qos output type queuing type copp type all))	2139
IPI-QOS-IF	2140
Configure lag shaper unit	2140
Configure untagged priority	2140
Configure trust dscp	2141
Configure cos	2141
Configure inner cos	2142
Configure dscp	2142
Configure name	2143
Configure rate	2144
Configure cos to queue	2144
Configure dscp to dscp	2145
Configure precedence to precedence	2145
Configure dscp to queue	2146
Configure precedence to queue	2147
Configure queue color to cos	2147
Configure queue to exp	2148
Configure egress dynamic ecn	2148
Configure type qos policy map name	2149
Configure egress type-qos-policy-map-name	2150
Configure type queuing policy map name	2150
IPI-RSVP	2151
Configure options	2151
Configure enable rsvp trap	2151
Configure disable refresh resv parsing	2152
Configure disable refresh path parsing	2152

Configure disable loop detection	2153
Configure enable php.	2153
Configure enable entropy label capability	2153
Configure enable bundle send	2154
Configure enable explicit null	2154
Configure on boot adjust multiplier	2155
Configure rsvp	2155
Configure revert timer	2156
Configure session state timeout.	2156
Configure ingress.	2157
Configure enable message ack	2157
Configure disable refresh reduction	2158
Configure ack send timer	2158
Configure ack wait timeout.	2159
Configure refresh time	2159
Configure keep multiplier	2160
Configure detour allow primary upstream path	2160
Configure default frr protection	2161
Configure preemption type.	2161
Configure bypass lsp addr query interval.	2162
Configure detour id	2162
Configure auto bypass	2163
Configure enable	2163
Configure inactivity timer	2164
Configure type	2164
Configure protection capability.	2165
Configure bandwidth	2165
Configure setup priority	2166
Configure hold priority	2167
Configure hop limit	2167
Configure reoptimize	2168
Configure address	2169
Configure disable cspf	2170
Configure cspf lsp reoptimization time	2170
Configure enable hello receipt	2171
Configure hello interval	2171
Configure hello timeout	2172
Configure enable graceful restart.	2172
Configure restart time	2173
Configure recovery time.	2173
Configure srlg disjoint	2174
Configure neighbors address.	2174
clear rsvp statistics.	2175
snmp restart rsvp	2175
debug rsvp (events packet packet in packet out hexdump nsm cspf fsm egress fsm transit downstream fsm transit upstream fsm ingress rib neighbor autobw fsm fsm transit all) .	2175

no debug rsvp (events packet packet in packet out hexdump nsm cspf fsm egress fsm transit downstream fsm transit upstream fsm ingress rib neighbor autobw fsm fsm transit all))	2176
restart rsvp graceful	2176
IPI-RSVP-TRUNK	2176
Configure path name	2176
Configure description	2177
Configure hop address	2177
Configure multipath name	2178
Configure multipath description	2178
Configure destination	2179
Configure bypass name	2179
Configure ingress	2180
Configure egress	2181
Configure ext tunnel id	2181
Configure update type	2182
Configure bypass-trunk description	2182
Configure enable reoptimize	2183
Configure shutdown	2183
Configure backup bandwidth type	2184
Configure disable route record	2184
Configure enable reuse route record	2185
Configure traffic type	2186
Configure retry count	2186
Configure retry interval	2187
Configure cspf retry count	2188
Configure cspf retry interval	2188
Configure exclude addr	2189
Configure path-state-block path-name	2190
Configure enable label record	2190
Configure hold priority	2191
Configure setup priority	2192
Configure hop limit	2193
Configure filter type	2193
Configure bandwidth	2194
Configure dscp exp map exp val	2195
Configure trunk name	2196
Configure ingress-trunk ingress	2196
Configure ingress-trunk egress	2197
Configure ingress-trunk ext-tunnel-id	2197
Configure ingress-trunk update-type	2198
Configure ingress-trunk description	2198
Configure ingress-trunk enable-reoptimize	2199
Configure ingress-trunk shutdown	2199
Configure multipath group	2200
Configure absolute metric	2200
Configure relative metric	2201

Configure revert timer	2201
Configure auto bandwidth	2202
Configure ldp tunneling	2202
Configure trunk color	2203
Configure bsid value	2203
Configure path option dynamic	2204
Configure pce entity identifier	2205
Configure pce state report	2205
Configure pce lsp delegate	2206
Configure address	2206
Configure priority value	2207
Configure priority path	2208
Configure secondary priority srlg disjoint	2208
Configure secondary-priority hold-priority	2209
Configure secondary-priority setup-priority	2210
Configure secondary-priority hop-limit	2211
Configure secondary-priority bandwidth	2211
Configure trunk session type	2212
Configure srlg disjoint secondary	2213
Configure session disable-route-record	2213
Configure disable affinity	2214
Configure session enable-reuse-route-record	2215
Configure disable cspf	2215
Configure session traffic-type	2216
Configure session retry-count	2217
Configure session retry-interval	2217
Configure session cspf-retry-count	2218
Configure session cspf-retry-interval	2219
Configure enable node protection	2219
Configure protection	2220
Configure frr hold priority	2221
Configure frr setup priority	2222
Configure frr hop limit	2223
Configure fast reroute bandwidth	2224
Configure admin group name	2224
Configure name	2225
Configure path-state-block path-name	2226
Configure session-attributes enable-label-record	2227
Configure session-attributes hold-priority	2228
Configure session-attributes setup-priority	2229
Configure session-attributes hop-limit	2229
Configure session-attributes filter-type	2230
Configure session-attributes bandwidth	2231
Configure dscp exp map class name	2232
Configure elsp signal	2233
Configure elsp signal class1	2234
Configure elsp signal class2	2234

Configure elsp signal class3	2235
Configure elsp signal class4	2237
Configure elsp signal class5	2238
Configure elsp signal class6	2239
Configure elsp signal class7	2240
Configure profile name	2242
Configure sample interval	2242
Configure adjust interval	2243
Configure minimum bandwidth	2243
Configure maximum bandwidth	2244
Configure overflow threshold percent	2244
Configure underflow threshold percent	2245
Configure overflow threshold bandwidth	2246
Configure underflow threshold bandwidth	2246
Configure underflow threshold activate bandwidth	2247
Configure overflow threshold activate bandwidth	2247
Configure overflow limit	2248
Configure underflow limit	2248
Configure initial bandwidth	2249
Configure maximum bandwidth exceed limit	2249
Configure maximum bandwidth exceed action	2250
Configure resignal failure action	2250
Configure sync bandwidth	2251
Configure monitor bandwidth	2251
Configure minimum samples percent	2252
Configure minimum samples absolute	2252
clear rsvp session *	2253
clear rsvp trunk (TRUNKNAME *)	2253
clear rsvp trunk (TRUNKNAME *) (primary)	2253
clear rsvp trunk (TRUNKNAME *) (secondary)	2254
clear rsvp trunk ingress (TRUNKNAME *)	2254
clear rsvp trunk non-ingress (TRUNKNAME *)	2254
rsvp-session SESSIONNAME force-reoptimize	2255
rsvp-trunk TRUNKNAME force-switchover-secondary (off on)	2255
rsvp-trunk-restart	2255
clear rsvp session TUNNEL-ID LSP-ID INGRESS EGRESS	2256
rsvp-trunk TRUNKNAME force-auto-bandwidth-adjustment (BANDWIDTH)	2256
clear rsvp auto-bandwidth (PROFILENAME)	2257
clear rsvp trunk TRUNKNAME auto-bandwidth-statistics	2257
clear rsvp neighbor A.B.C.D.	2257
IPI-RSVP-INTERFACE	2258
Configure enable rsvp	2258
Configure enable iana hello config	2258
Configure disable refresh reduction	2259
Configure enable message ack	2259
Configure ack wait timeout	2260
Configure refresh time	2260

Configure keep multiplier	2261
Configure enable hello receipt	2262
Configure hello interval	2262
Configure hello timeout	2263
IPI-MPLS	2264
Configure name	2264
Configure match all	2264
Configure match single tag outer vlan range	2265
Configure match untagged	2265
Configure match inner vlan id	2266
Configure vlan action type	2266
Configure outer vlan identifier	2267
Configure action-types vlan-action-type	2268
Configure group name	2269
Configure local packet handling	2269
Configure lsp stitching	2270
Configure propagate ttl	2270
Configure ingress ttl value	2270
Configure lsp model uniform	2271
Configure lsp encap dscp preserve	2271
Configure propagate exp to cos	2272
Configure l2vpn nw statistics	2272
Configure six pe dscp preserve	2272
Configure suppress oper log mpls	2273
Configure l2vpn stitching	2273
Configure enable	2274
Configure admin group name	2274
Configure admin group anomaly name	2275
Configure extended admin group name	2275
Configure extended admin group anomaly name	2276
Configure bandwidth	2277
Configure reservable bandwidth	2277
Configure shared risk link group	2278
Configure uni available bandwidth	2278
Configure uni residual bandwidth	2279
Configure uni utilized bandwidth	2280
Configure max label	2280
Configure label space name	2281
Configure ftn ecmp protocol	2282
Configure ilm ecmp protocol	2282
Configure six-pe-tunnel-policies name	2282
Configure bandwidth-classes name	2283
Configure max bandwidth	2283
IPI-MPLS-RIB	2284
Configure route prefix	2284
Configure out interface name	2285
Configure tunnel id	2286

Configure fec prefix	2286
Configure enable pop label	2287
Configure incoming label	2288
Configure in interface name	2289
Configure mpls aware rib disabled	2290
IPI-MPLS-BFD	2290
Configure fec address	2290
Configure lsp ping interval	2291
Configure admin down	2292
Configure detection multiplier	2292
Configure lsp type	2293
Configure session-attributes lsp-ping-interval	2294
Configure session-attributes admin-down	2294
Configure minimum tx	2295
Configure tunnel name	2295
Configure session-attributes lsp-ping-interval	2296
Configure session-attributes admin-down	2297
Configure minimum rx	2297
IPI-L2VPN-VPWS	2298
Configure pseudowire identifier	2298
Configure instance name	2299
Configure instance type	2300
Configure peer address	2301
Configure enable default tagged mode	2302
Configure service tpid	2303
Configure enable manual pseudowire	2304
Configure tunnel name	2305
Configure pseudowires pseudowire-identifier	2306
Configure pseudowires pseudowire-identifier	2307
Configure enable control word	2308
Configure pseudowires pseudowire-identifier	2310
Configure tunnel identifier	2311
Configure pseudowires pseudowire-identifier	2312
Configure pseudowires pseudowire-identifier	2313
Configure pseudowires pseudowire-identifier	2314
Configure pseudowires pseudowire-identifier	2315
Configure tunnel policy	2317
Configure pseudowires pseudowire-identifier	2318
Configure pseudowires pseudowire-identifier	2319
Configure pseudowires pseudowire-identifier	2320
Configure group name	2321
Configure pseudowires pseudowire-identifier	2322
Configure group identifier	2323
Configure pseudowires pseudowire-identifier	2325
Configure pseudowires pseudowire-identifier	2326
Configure pseudowires pseudowire-identifier	2327
Configure pseudowires pseudowire-identifier	2328

Configure pseudowires pseudowire-identifier	2330
Configure pseudowires pseudowire-identifier	2331
Configure pseudowires pseudowire-identifier	2332
Configure pseudowires pseudowire-identifier	2334
Configure pseudowires pseudowire-identifier	2335
Configure pseudowires pseudowire-identifier	2336
Configure pseudowires pseudowire-identifier	2338
Configure enable interface parameter tlv	2339
Configure enable static flow label	2340
Configure flow label direction	2341
Configure default-tagged service-tpid	2342
Configure default-tagged group-name	2343
Configure default-tagged group-identifier	2344
Configure default-tagged enable-control-word	2344
Configure default-tagged tunnel-name	2345
Configure default-tagged tunnel-policy	2346
Configure default-tagged tunnel-identifier	2347
Configure default-tagged enable-manual-pseudowire	2348
Configure control channel type	2348
Configure control verification type	2349
Configure enable tagged mode	2350
Configure pseudowires pseudowire-identifier	2351
Configure pseudowires pseudowire-identifier	2352
Configure pseudowires pseudowire-identifier	2353
Configure pseudowires pseudowire-identifier	2354
Configure pseudowires pseudowire-identifier	2355
Configure pseudowires pseudowire-identifier	2356
Configure pseudowires pseudowire-identifier	2357
Configure pseudowires pseudowire-identifier	2358
Configure pseudowires pseudowire-identifier	2359
Configure pseudowires pseudowire-identifier	2361
Configure pseudowires pseudowire-identifier	2362
Configure pseudowires pseudowire-identifier	2363
Configure pseudowires pseudowire-identifier	2364
Configure pseudowires pseudowire-identifier	2366
Configure pseudowires pseudowire-identifier	2367
Configure pseudowires pseudowire-identifier	2368
Configure pseudowires pseudowire-identifier	2370
Configure pseudowires pseudowire-identifier	2371
Configure enable flow label	2372
Configure tagged enable-static-flow-label	2373
Configure tagged flow-label-direction	2374
Configure tagged group-name	2375
Configure tagged group-identifier	2376
Configure tagged enable-control-word	2377
Configure tagged tunnel-name	2378
Configure tagged tunnel-policy	2378

Configure tagged tunnel-identifier	2379
Configure tagged enable-manual-pseudowire	2380
Configure tagged control-channel-type	2381
Configure tagged control-verification-type	2382
Configure enable raw mode	2383
Configure pseudowires pseudowire-identifier	2384
Configure pseudowires pseudowire-identifier	2385
Configure pseudowires pseudowire-identifier	2386
Configure pseudowires pseudowire-identifier	2387
Configure pseudowires pseudowire-identifier	2388
Configure pseudowires pseudowire-identifier	2389
Configure pseudowires pseudowire-identifier	2390
Configure pseudowires pseudowire-identifier	2391
Configure pseudowires pseudowire-identifier	2393
Configure pseudowires pseudowire-identifier	2394
Configure pseudowires pseudowire-identifier	2395
Configure pseudowires pseudowire-identifier	2396
Configure pseudowires pseudowire-identifier	2398
Configure pseudowires pseudowire-identifier	2399
Configure pseudowires pseudowire-identifier	2400
Configure pseudowires pseudowire-identifier	2402
Configure raw enable-interface-parameter-tlv	2403
Configure raw enable-static-flow-label	2404
Configure raw flow-label-direction	2405
Configure raw group-name	2406
Configure raw group-identifier	2407
Configure raw enable-control-word	2408
Configure raw tunnel-name	2408
Configure raw tunnel-policy	2409
Configure raw tunnel-identifier	2410
Configure raw enable-manual-pseudowire	2411
Configure raw control-channel-type	2412
Configure raw control-verification-type	2413
Configure attachment group identifier	2413
Configure source attachment individual identifier	2414
Configure target attachment individual identifier	2415
Configure pseudowire-fec129 tunnel-policy	2416
Configure pseudowire-fec129 enable-control-word	2417
Configure pseudowire-fec129 tunnel-name	2419
Configure pseudowire-fec129 tunnel-identifier	2420
Configure pseudowire-fec129 tunnel-policy	2421
Configure pseudowire-fec129 group-name	2422
Configure pseudowire-fec129 group-identifier	2423
Configure pseudowire-fec129 enable-control-word	2424
Configure pseudowire-fec129 service-tpid	2425
Configure pseudowire-fec129 tunnel-name	2426
Configure pseudowire-fec129 tunnel-policy	2427

Configure pseudowire-fec129 tunnel-identifier	2428
Configure tagged enable-tagged-mode	2429
Configure tagged tunnel-name	2430
Configure tagged tunnel-identifier	2431
Configure tagged tunnel-policy	2432
Configure tagged enable-control-word.	2433
Configure tagged tunnel-name	2434
Configure tagged tunnel-identifier	2435
Configure tagged tunnel-policy	2437
Configure tagged group-name	2438
Configure tagged group-identifier	2439
Configure tagged enable-control-word.	2440
Configure tagged service-tpid	2441
Configure tagged tunnel-name	2442
Configure tagged tunnel-policy	2443
Configure tagged tunnel-identifier	2444
Configure raw enable-raw-mode	2445
Configure raw tunnel-name	2446
Configure raw tunnel-identifier	2447
Configure raw tunnel-policy	2448
Configure raw enable-control-word	2449
Configure raw tunnel-name	2450
Configure raw tunnel-identifier	2452
Configure raw tunnel-policy	2453
Configure raw group-name	2454
Configure raw group-identifier	2455
Configure raw enable-control-word	2456
Configure raw service-tpid	2457
Configure raw tunnel-name	2458
Configure raw tunnel-policy	2459
Configure raw tunnel-identifier	2460
Configure service template	2461
Configure enable	2462
Configure revertive timer	2462
Configure mac withdrawal send on vpws vc switchover	2463
Configure vpws name	2464
Configure pseudowire name	2464
Configure name	2465
Configure service template name	2466
Configure queue to cos profile name	2467
Configure access interface name	2468
clear mpls l2-circuit NAME statistics	2468
clear mpls l2-circuit NAME statistics (access-port network-port)	2469
vc-switchover NAME NAME	2469
IPI-SEGMENT-ROUTING	2470
Configure enable	2470
Configure flex algo enable	2470

Configure adj sid absolute	2470
Configure adj sid index	2471
Configure sid absolute	2472
Configure sid index	2473
Configure name	2473
Configure algorithm num	2474
Configure enable preference	2475
Configure mapping-server enable	2476
Configure preference	2476
Configure prefix-sid-map-ipv4 enable	2477
Configure start address	2477
Configure start sid	2478
Configure end	2479
Configure start	2479
Configure traffic-engineering enable	2480
Configure fast reroute enable	2480
Configure list name	2481
Configure sid value	2481
Configure prefix	2482
Configure end point	2483
Configure policies name	2484
Configure admin state	2484
Configure explicit null	2485
Configure cspf retry limit	2485
Configure cspf retry interval	2486
Configure entropy erld	2486
Configure bsid value	2487
Configure discriminator	2487
Configure protocol origin	2488
Configure pcep	2489
Configure isis	2490
Configure ospf	2490
Configure ospf empty	2491
Configure originator	2492
Configure constraints enable	2493
Configure hop limit	2494
Configure metric type	2495
Configure bound	2496
Configure admin group name	2497
Configure extended admin group name	2498
Configure srlg group name	2499
Configure address	2500
Configure ihaf address	2501
Configure segment-rule enable	2502
Configure segment-rule enable	2503
Configure dataplane type	2504
Configure sid algorithm	2505

Configure protection type	2506
Configure sub id	2507
Configure group id	2508
Configure segment-lists list-name	2509
Configure pce lsp delegate	2510
Configure pce state report	2510
Configure pce entity id	2511
Configure srv6 enable	2511
Configure locators enable	2512
Configure locator name	2512
Configure locator prefix	2513
Configure options	2513
debug sr-policy (policy cp pce mpls flexalgo all)	2514
no debug sr-policy (policy cp pce mpls flexalgo all)	2514
IPI-L2VPN-VPLS	2514
Configure service template name	2514
Configure admin status	2515
Configure attachment circuit description	2515
Configure mac learning	2516
Configure split horizon	2517
Configure static mac address	2517
Configure profile name	2518
Configure out label	2519
Configure vpls identifier	2519
Configure detect interval	2520
Configure mac-limit-profiles profile-name	2521
Configure learning limit	2521
Configure action	2522
Configure high watermark	2522
Configure low watermark	2523
Configure errdisable timeout interval	2523
Configure enable	2524
Configure vpls name	2524
Configure disable mac learning	2525
Configure name	2526
Configure vpls-access static-mac-address	2526
Configure vpls identifier	2527
Configure service transport identifier	2527
Configure route map	2528
Configure maximum transmission unit	2529
Configure vpls description	2529
Configure control word	2530
Configure mac learning disable	2530
Configure mac learning limit	2531
Configure attachment circuit group name	2531
Configure mac withdrawal	2532
Configure mac flush send on mlag switchover	2533

Configure pseudowire name	2533
Configure revertive timer	2534
Configure secondary pseudowire name	2535
Configure instance name	2535
Configure instance type	2536
Configure enable interface parameter tlv	2537
Configure enable static flow label	2537
Configure flow label direction	2538
Configure signaling protocol ldp	2539
Configure disable mac withdrawal	2540
Configure vpls ac treatment type	2540
Configure vpls encapsulation type	2541
Configure peer address	2541
Configure tunnel name	2542
Configure tunnel identifier	2543
Configure tunnel policy	2544
Configure vpls-peer peer-address	2545
Configure vpls-peer tunnel-name	2545
Configure vpls-peer tunnel-identifier	2546
Configure vpls-peer tunnel-policy	2547
Configure vpls type	2547
Configure vpls-peer vpls-type	2548
Configure vpls-peer vpls-type	2549
Configure vpls-peer vpls-type	2550
Configure target attachment individual identifier	2550
Configure attachment group identifier	2551
Configure source attachment individual identifier	2552
Configure vpls-peers peer-address	2553
Configure bgp auto discovery	2555
Configure rd string	2555
Configure l2vpn id	2556
Configure direction	2557
Configure signaling protocol bgp	2557
Configure vpls edge identifier	2558
Configure bgp-signaling tunnel-policy	2559
Configure profile type	2559
Configure detect time	2560
Configure mac move instance	2561
Configure vpls-mac-move-instance errdisable-timeout-interval	2561
Configure errdisable allow mesh blocking	2562
clear mpls vpls NAME statistics (access-port network-port)	2563
clear mpls vpls NAME statistics network-port peer A.B.C.D	2563
clear mpls vpls NAME statistics network-port spoke-vc VC_NAME	2563
clear mpls vpls NAME statistics access-port WORD (vlan (<1-4094>) ethernet)	2564
clear mpls vpls NAME statistics	2564
clear mpls vpls NAME mac-addresses	2564
clear mpls vpls mac-addresses	2565

clear mpls vpls mac-move NAME	2565
IPI-MCEC	2565
Configure options	2565
Configure mcec strict active standby	2566
Configure system number	2566
Configure delay time	2566
Configure address	2567
Configure priority	2567
Configure hello timeout	2568
Configure interface	2568
Configure vrf	2568
Configure interface mode	2569
Configure revertive timer	2570
Configure enable non revertive	2570
debug mcec (hello info timer event cli mac-sync stp all)	2571
no debug mcec (hello info timer event cli mac-sync stp all)	2571
clear mcec statistics	2571
reload-trigger-mcec-notification	2572
IPI-MLAG	2572
Configure mlag id	2572
reload-trigger-save-mlag-info	2572
IPI-PLATFORM	2573
Configure enable cmm	2573
Configure enable ddm	2573
Configure warning repeat	2573
Configure locator led enable	2574
Configure ddm monitor time interval	2574
Configure cpu core usage monitor interval	2575
Configure enable ddm monitor	2575
Configure gps satellite	2575
Configure system 15min load avg alarm	2576
Configure alarm threshold	2576
Configure gps position disable	2577
Configure gps survey in position accuracy	2577
Configure gps fixed altitude	2578
Configure monitor port	2579
Configure poe enable	2579
Configure transceiver code	2580
Configure wavelength	2580
Configure tx disable	2581
Configure edfa operating mode	2581
Configure edfa target output power	2582
Configure edfa target gain	2582
Configure tx cdr bypass	2583
Configure rx cdr bypass	2583
Configure interval	2584
Configure read threshold	2584

Configure write threshold	2585
Configure temperature policy	2585
Configure sensor id	2585
Configure value	2586
Configure fan duty	2587
clear ddm transceiver alarm all	2587
clear ddm transceiver alarm	2587
debug ddm	2587
no debug ddm	2588
debug cmm	2588
no debug cmm	2588
gps position survey-in restart	2588
IPI-PLATFORM-PROFILE	2588
Configure flow control	2588
Configure aclif	2589
Configure seamless bfd	2589
Configure kbp disable	2590
Configure ufi9600 64x port mode	2590
Configure as7315 27x port mode	2591
Configure as5916 as5912 54x port mode	2591
Configure as7316 26xb port mode	2591
Configure s9500 30xs port mode	2592
Configure ufi9600 32x port mode	2592
Configure ufi9600 56dx port mode	2593
Configure ufi9600 28dx port mode	2593
Configure ufi9610 36d port mode	2594
Configure ufi9610 46dx port mode	2594
Configure ufi9610 48dx port mode	2595
Configure as9947 36xkb port mode	2595
Configure custom service queue profile	2595
Configure bgp flowspec mode	2596
Configure eedb	2596
Configure ingress ipv6 extended	2597
Configure ingress ipv6 extended vlan	2597
Configure ingress ip outer	2598
Configure egress dst ipv6	2598
Configure egress src ipv6	2599
Configure egress ipv6 dnx	2599
Configure ingress ipv6	2600
Configure qos policer	2600
Configure qos ipv6	2601
Configure ipv4 bgp flowspec	2601
Configure qos extended	2602
Configure ingress ipv4 extended	2602
Configure ingress ipv6 qos	2603
Configure ingress ipv4 qos	2603
Configure ingress ipv6 qos copp	2604

Configure ingress ipv4 qos copp	2604
Configure ingress layer2 extended	2605
Configure ingress ipv6 extended subif.	2605
Configure ingress ipv4 subif.	2606
Configure ingress arp.	2606
Configure egress qos policer	2606
Configure egress qos policer ext	2607
Configure egress ipv4 dnx	2607
Configure egress l2 mlag	2608
Configure egress ipv4 ext	2608
Configure egress layer2 dnx	2609
Configure egress layer2 ext	2609
Configure ingress layer2 subif	2610
Configure twamp ipv4 dnx	2610
Configure twamp ipv6	2611
Configure vxlan arp nd.	2611
Configure vxlan multi homing.	2612
Configure vxlan short pkt	2612
Configure dhcp snoop	2613
Configure dhcp snoop ipv6	2613
Configure ipsg	2614
Configure ipsg ipv6	2614
Configure ingress ipv4	2615
Configure ingress layer2	2615
Configure qos.	2615
Configure evpn mpls multi homing.	2616
Configure voq scale	2616
Configure virtual output queue full color forward drop	2617
Configure egress policer	2617
Configure cfm frame loss measurements	2618
Configure cfm synthetic loss measurements	2618
Configure cfm continuity check message	2619
Configure enable	2619
Configure mpls label based	2620
Configure symmetric type	2620
Configure protocol id based	2621
Configure next header based.	2621
Configure queue name	2622
Configure monitor status	2623
Configure rate	2623
Configure rate-limits queue-name	2624
cpu-q-default rate <0-100000>	2625
no cpu-q-default rate	2625
IPI-PLATFORM-PROFILE-EXTENDED	2626
Configure soc.	2626
Configure kaps.	2626
Configure ether type based	2627

Configure src dest ipv4 address based	2627
Configure symmetric type	2628
IPI-PLATFORM-CMIS	2629
Configure fp port	2629
Configure application	2629
Configure service disable.	2630
Configure custom app host id	2630
Configure custom app media id	2631
Configure type	2631
Configure location	2632
Configure checker type	2632
Configure checker location	2633
Configure loopback type	2633
Configure lane number	2634
Configure id	2635
Configure high alarm	2635
Configure low alarm	2636
Configure high warning	2637
Configure low warning	2638
Configure tx input equalizer target	2639
Configure rx output equalizer pre cursor target	2639
Configure rx output equalizer post cursor target	2640
Configure rx output amplitude target	2641
Configure tx cdr bypass	2642
Configure rx cdr bypass	2642
Configure generator type	2643
Configure generator location	2644
Configure checker type	2644
Configure checker location	2645
Configure loopback type	2646
Configure lanes lane-number.	2646
Configure channel	2647
Configure grid	2648
Configure fine tune freq	2648
Configure output power	2649
Configure thresholds id	2650
Configure threshold high-alarm	2651
Configure threshold low-alarm	2651
Configure threshold high-warning	2652
Configure threshold low-warning	2653
Configure tx filter type	2654
Configure tx filter roll off	2655
Configure laser channel	2655
Configure laser grid	2656
Configure laser fine-tune-freq	2656
Configure laser output-power.	2657
Configure thresholds id	2658

Configure threshold high-alarm	2658
Configure threshold low-alarm	2659
Configure threshold high-warning	2659
Configure threshold low-warning	2660
Configure signal-integrity tx-input-equalizer-target	2661
Configure signal-integrity rx-output-equalizer-pre-cursor-target	2661
Configure signal-integrity rx-output-equalizer-post-cursor-target	2662
Configure signal-integrity rx-output-amplitude-target	2662
Configure signal-integrity tx-cdr-bypass	2663
Configure signal-integrity rx-cdr-bypass	2663
Configure interval	2664
Configure provisions tx-filter-type	2665
Configure provisions tx-filter-roll-off	2665
tibit-olt-microplug set interface IFNAME management-vlan-tpid (0x8100 0x88a8)	2666
tibit-olt-microplug set interface IFNAME management-vlan-id <1-4094>	2666
tibit-olt-microplug set interface IFNAME ethernet-mac-address XX:XX:XX:XX:XX	2667
tibit-olt-microplug set interface IFNAME next-active-firmware-bank-id <0-3>	2667
tibit-olt-microplug reboot interface IFNAME	2667
IPI-PLATFORM-TRANSCEIVER-SMART-SFP	2668
Configure xcvr loopback remote	2668
xcvr IFNAME tx-disable <1-256> remote	2668
xcvr IFNAME reset remote	2669
IPI-AUTHENTICATION	2669
Configure mac authentication	2669
Configure dot1x authentication	2669
Configure dot1x control	2670
Configure protocol version	2670
Configure quiet period	2671
Configure max reauth value	2671
Configure interval period	2672
Configure reauthentication period	2673
Configure enable reauthentication	2673
Configure enable mac auth bypass	2674
Configure supplicant timeout	2674
Configure server timeout	2675
Configure mac control	2676
Configure mac mode	2676
Configure dynamic vlan creation	2677
Configure mac address aging	2677
Configure options	2678
dot1x initialize interface IFNAME	2678
snmp restart auth	2678
debug dot1x (event timer packet nsm all)	2678
no debug dot1x (event timer packet nsm all)	2679
IPI-AUTHENTICATION-RADIUS	2679
Configure port	2679
Configure timeout	2680

Configure retransmit max retries	2680
Configure key string	2681
Configure encryption key	2681
Configure host address	2682
Configure host port	2682
Configure host timeout	2683
Configure host retransmit max retries	2683
Configure host key-string	2684
Configure host encryption-key	2684
IPI-ACL	2685
Configure type	2685
Configure name	2685
Configure acl-sets type	2686
Configure acl-sets type	2686
Configure acl-sets type	2687
Configure acl-sets type	2687
Configure description	2688
Configure acl-set description	2688
Configure acl-set description	2689
Configure ipv6 disable default icmpv6 rule	2689
Configure acl-set ipv6-disable-default-icmpv6-rule	2690
Configure starting sequence number	2690
Configure increment steps	2691
Configure re-sequence starting-sequence-number	2692
Configure forwarding action default	2692
Configure inner vlan id	2693
Configure sequence id	2694
Configure forwarding action	2696
Configure protocol tcp	2697
Configure source address	2699
Configure destination address	2700
Configure lower destination port in range	2702
Configure upper destination port in range	2703
Configure precedence	2705
Configure source port operator	2707
Configure tcp source port	2708
Configure destination port operator	2710
Configure tcp flags	2712
Configure dscp	2714
Configure vlan id	2716
Configure ipv4 inner-vlan-id	2718
Configure ipv4 inner-vlan-id	2720
Configure ipv4 inner-vlan-id	2721
Configure lower source port in range	2723
Configure upper source port in range	2725
Configure tcp destination port	2727
Configure ipv4 inner-vlan-id	2728

Configure ipv4 inner-vlan-id	2730
Configure ipv4 inner-vlan-id	2732
Configure ipv4 inner-vlan-id	2734
Configure ipv4 inner-vlan-id	2735
Configure ipv4 inner-vlan-id	2737
Configure protocol udp	2739
Configure ipv4 inner-vlan-id	2740
Configure ipv4 inner-vlan-id	2741
Configure udp destination port	2742
Configure ipv4 inner-vlan-id	2744
Configure ipv4 inner-vlan-id	2745
Configure ipv4 inner-vlan-id	2747
Configure ipv4 inner-vlan-id	2748
Configure ipv4 inner-vlan-id	2750
Configure udp source port	2751
Configure ipv4 inner-vlan-id	2753
Configure ipv4 inner-vlan-id	2755
Configure ipv4 inner-vlan-id	2757
Configure ipv4 inner-vlan-id	2758
Configure ipv4 inner-vlan-id	2760
Configure ipv4 inner-vlan-id	2762
Configure ipv4 inner-vlan-id	2763
Configure ipv4 inner-vlan-id	2765
Configure ipv4 inner-vlan-id	2766
Configure ipv4 inner-vlan-id	2768
Configure ipv4 inner-vlan-id	2770
Configure ipv4 inner-vlan-id	2772
Configure ipv4 inner-vlan-id	2773
Configure ipv4 inner-vlan-id	2775
Configure ipv4 inner-vlan-id	2777
Configure ipv4 inner-vlan-id	2778
Configure ipv4 inner-vlan-id	2780
Configure protocol icmp	2781
Configure ipv4 inner-vlan-id	2782
Configure ipv4 inner-vlan-id	2784
Configure protocol name	2785
Configure ipv4 inner-vlan-id	2786
Configure ipv4 inner-vlan-id	2788
Configure standard-acl-sets type	2789
Configure standard-acl-sets type	2789
Configure ipv4-acl-entry source-address	2790
IPI-ACL-IPV6	2791
Configure vlan id	2791
Configure name	2792
Configure type	2793
Configure sequence id	2795
Configure forwarding action	2797

Configure protocol tcp	2799
Configure source address	2800
Configure lower source port in range	2802
Configure upper source port in range	2804
Configure protocol udp	2805
Configure destination address	2806
Configure lower destination port in range	2808
Configure source port operator	2809
Configure udp source port	2811
Configure dscp	2813
Configure destination port operator	2815
Configure upper destination port in range	2816
Configure ipv6 vlan-id	2818
Configure protocol icmp	2820
Configure protocol sctp	2821
Configure sctp destination port	2822
Configure ipv6 vlan-id	2824
Configure sctp source port	2825
Configure ipv6 vlan-id	2827
Configure ipv6 vlan-id	2828
Configure ipv6 vlan-id	2830
Configure ipv6 vlan-id	2831
Configure ipv6 vlan-id	2833
Configure protocol name	2835
Configure ipv6-acl-entry source-address	2836
IPI-ACL-ARP	2837
Configure source mac any	2837
Configure name	2838
Configure type	2840
Configure source mac host	2841
Configure sequence id	2843
Configure forwarding action	2844
Configure source mac address	2846
Configure arp packet type	2847
Configure source ip address	2849
Configure vlan id	2851
Configure inner vlan id	2852
Configure source mac mask	2853
IPI-ACL-MAC	2855
Configure source mac any	2855
Configure name	2856
Configure type	2857
Configure source mac host	2859
Configure sequence id	2860
Configure forwarding action	2862
Configure source mac address	2863
Configure source mac mask	2865

Configure destination mac address	2866
Configure learn disable	2868
Configure destination mac host	2869
Configure destination mac mask	2870
Configure destination mac any	2871
Configure mac learn-disable	2872
Configure mac learn-disable	2873
Configure mac learn-disable	2874
Configure mac learn-disable	2875
Configure mac learn-disable	2876
Configure inner vlan id	2878
Configure ethertype	2879
Configure cos value	2880
Configure vlan id	2882
Configure mac inner-vlan-id	2883
Configure mac inner-vlan-id	2885
Configure mac inner-vlan-id	2886
Configure mac inner-vlan-id	2888
Configure mac inner-vlan-id	2889
IPI-ACL-PORTS	2891
Configure acl name	2891
Configure name	2892
Configure acl type	2893
Configure time range	2893
Configure interfaces name	2894
Configure interfaces name	2895
Configure access-group time-range	2896
Configure interfaces name	2896
Configure access-group time-range	2897
Configure interfaces name	2898
Configure access-group time-range	2899
Configure interfaces name	2899
Configure access-group time-range	2900
Configure ingress-acl-set acl-name	2901
Configure ingress-acl-set acl-name	2901
Configure egress-acl-set acl-name	2902
Configure egress-acl-set acl-name	2902
clear access-list counters	2903
clear access-list NAME counters	2903
clear ip access-list counters	2904
clear ip access-list NAME counters	2904
clear ipv6 access-list counters	2904
clear ipv6 access-list NAME counters	2904
clear mac access-list counters	2905
clear mac access-list NAME counters	2905
clear arp access-list counters	2905
clear arp access-list NAME counters	2905

IPI-ACL-COPP	2906
Configure log action	2906
Configure name	2907
Configure type	2909
Configure sequence id	2911
Configure forwarding action	2913
Configure protocol tcp	2914
Configure source address	2916
Configure lower source port in range	2919
Configure upper source port in range	2921
Configure source prefix group	2923
Configure destination address	2924
Configure lower destination port in range	2926
Configure source port operator	2928
Configure fragments	2930
Configure tcp source port	2932
Configure upper destination port in range	2934
Configure tcp flags	2936
Configure destination port operator	2938
Configure destination prefix group	2940
Configure tcp destination port	2942
Configure ttl	2944
Configure ip options	2945
Configure ipv4 log-action	2947
Configure ipv4 log-action	2949
Configure ipv4 log-action	2951
Configure ipv4 log-action	2954
Configure ipv4 log-action	2956
Configure ipv4 log-action	2958
Configure ipv4 log-action	2959
Configure ipv4 log-action	2961
Configure ipv4 log-action	2963
Configure ipv4 log-action	2965
Configure ipv4 log-action	2967
Configure ipv4 log-action	2969
Configure ipv4 log-action	2971
Configure ipv4 log-action	2973
Configure protocol udp	2975
Configure udp destination port	2977
Configure ipv4 log-action	2978
Configure udp source port	2980
Configure ipv4 log-action	2982
Configure ipv4 log-action	2983
Configure ipv4 log-action	2985
Configure ipv4 log-action	2987
Configure ipv4 log-action	2989
Configure ipv4 log-action	2991

Configure ipv4 log-action	2993
Configure ipv4 log-action	2994
Configure ipv4 log-action	2996
Configure ipv4 log-action	2998
Configure ipv4 log-action	3000
Configure ipv4 log-action	3002
Configure ipv4 log-action	3004
Configure ipv4 log-action	3006
Configure ipv4 log-action	3008
Configure ipv4 log-action	3009
Configure ipv4 log-action	3011
Configure ipv4 log-action	3013
Configure ipv4 log-action	3015
Configure ipv4 log-action	3016
Configure ipv4 log-action	3018
Configure ipv4 log-action	3020
Configure ipv4 log-action	3022
Configure ipv4 log-action	3024
Configure ipv4 log-action	3026
Configure ipv4 log-action	3028
Configure ipv4 log-action	3029
Configure ipv4 log-action	3031
Configure ipv4 log-action	3033
Configure ipv4 log-action	3035
Configure ipv4 log-action	3037
Configure ipv4 log-action	3039
Configure protocol icmp	3041
Configure ipv4 log-action	3042
Configure icmp type	3044
Configure ipv4 log-action	3045
Configure ipv4 log-action	3047
Configure ipv4 log-action	3048
Configure ipv4 log-action	3050
Configure ipv4 log-action	3052
Configure protocol name	3053
Configure ipv4 log-action	3055
Configure ipv4 log-action	3056
Configure ipv4 log-action	3058
Configure hop limit	3059
Configure ipv6 log-action	3061
Configure ipv6 log-action	3062
Configure ipv6 log-action	3064
Configure ipv6 log-action	3065
Configure ipv6 log-action	3067
Configure ipv6 log-action	3069
Configure ipv6 log-action	3070
Configure ipv6 log-action	3072

Configure ipv6 log-action	3074
Configure ipv6 log-action	3075
Configure ipv6 log-action	3077
Configure ipv6 log-action	3079
Configure ipv6 log-action	3080
Configure ipv6 log-action	3082
Configure ipv6 log-action	3084
Configure ipv6 log-action	3086
Configure ipv6 log-action	3087
Configure ipv6 log-action	3089
Configure ipv6 log-action	3091
Configure ipv6 log-action	3092
Configure ipv6 log-action	3094
Configure ipv6 log-action	3096
Configure ipv6 log-action	3097
Configure ipv6 log-action	3099
Configure ipv6 log-action	3101
Configure ipv6 log-action	3103
Configure ipv6 log-action	3105
Configure ipv6 log-action	3106
Configure ipv6 log-action	3108
Configure ipv6 log-action	3109
Configure ipv6 log-action	3111
Configure ipv6 log-action	3113
Configure ipv6 log-action	3114
Configure ipv6 log-action	3116
Configure ipv6 log-action	3118
Configure ipv6 log-action	3120
Configure ipv6 log-action	3121
Configure ipv6 log-action	3123
Configure ipv6 log-action	3124
Configure ipv6 log-action	3126
Configure ipv6 log-action	3127
Configure ipv6 log-action	3129
Configure ipv6 log-action	3131
Configure ipv6 log-action	3133
Configure ipv6 log-action	3135
Configure ipv6 log-action	3136
Configure ipv6 log-action	3138
Configure ipv6 log-action	3139
Configure ipv6 log-action	3141
Configure ipv6 log-action	3142
Configure ipv6 log-action	3144
Configure ipv6 log-action	3146
Configure ipv6 log-action	3148
Configure ipv6 log-action	3150
Configure ipv6 log-action	3151

Configure ipv6 log-action	3153
Configure ipv6 log-action	3154
Configure ipv6 log-action	3156
Configure ipv6 log-action	3158
Configure ipv6 log-action	3159
Configure ipv6 log-action	3161
Configure ipv6 log-action	3163
Configure ipv6 log-action	3165
Configure ipv6 log-action	3166
Configure ipv6 log-action	3168
Configure ipv6 log-action	3170
Configure ipv6 log-action	3171
Configure ipv6 log-action	3173
Configure ipv6 log-action	3175
Configure ipv6 log-action	3176
Configure ipv6 log-action	3178
Configure protocol icmpv6	3180
Configure ipv6 log-action	3181
Configure ipv6 log-action	3183
Configure ipv6 log-action	3184
Configure ipv6 log-action	3185
Configure ipv6 log-action	3187
Configure ipv6 log-action	3188
Configure ipv6 log-action	3190
IPI-DHCP-SNOOPING	3191
Configure options	3191
Configure snooping enable	3191
Configure verify mac address	3192
Configure option 82 enable	3192
Configure write delay	3193
Configure strict validation	3193
Configure enable	3194
Configure validate mac	3195
Configure vlan range	3195
Configure option82 template name	3196
Configure bridge id	3196
Configure if name	3197
Configure mac address	3198
ip dhcp snooping database bridge WORD	3199
renew ip dhcp snooping binding database bridge WORD	3199
ip dhcp snooping source database bridge WORD	3200
renew ip dhcp snooping source binding database bridge WORD	3200
clear ip dhcp snooping source binding bridge WORD	3200
clear ip dhcp snooping binding bridge WORD	3200
debug ip dhcp snooping (event rx tx packet all)	3201
no debug ip dhcp snooping (event rx tx packet all)	3201
IPI-DHCP-SNOOPING-INTERFACE	3201

Configure snooping trust	3201
Configure verify snooping vlan	3202
Configure verify access group mode	3203
clear hsl ipc-stat VALUE VALUE	3203
clear hsl ipc-stat	3204
clear hsl mlag mac-sync-count	3204
clear hardware-discard-counters	3204
clear hsl fdb debug-counters	3204
clear hsl system-cpu-stats	3204
IPI-UNICAST-RPF	3205
Configure enable route lookup	3205
Configure enable default route check	3205
Configure source reachability mode	3205
IPI-OSPF-INTERFACE-TRACKING	3206
Configure event name	3206
Configure event neighbor ip address	3207
Configure name	3207
IPI-PORT-MIRROR	3208
Configure description	3208
Configure interface name	3208
Configure reflector interface name	3209
Configure name	3210
Configure direction	3210
Configure source vlan	3211
Configure enabled	3211
Configure id	3212
Configure erspan-destinations name	3213
Configure dest ip	3213
Configure vrf name	3214
Configure erspan id	3214
Configure origin ip	3215
Configure ttl	3215
Configure dscp	3216
Configure enable truncate	3216
Configure erspan type	3217
Configure hardware id	3217
Configure switch id	3218
IPI-RIPNG	3218
Configure options	3218
Configure split horizon	3219
Configure name	3219
Configure enabled	3220
Configure metric offset	3220
Configure ripng enabled	3221
Configure enable cisco metric behavior	3221
Configure instance enable-cisco-metric-behavior	3221
Configure passive interfaces	3222

Configure distance	3222
Configure static routes	3223
Configure aggregate prefixes	3223
Configure default metric	3223
Configure originate default route	3224
Configure receive buffer size	3224
Configure route type	3225
Configure route map	3225
Configure metric	3226
Configure redistribute-policy route-map	3226
Configure route table update interval	3227
Configure address	3227
Configure type	3228
Configure access list name	3229
Configure direction	3229
Configure list name	3230
Configure offset-list metric	3231
Configure distribute-list direction	3232
Configure distribute-prefix-list direction	3232
debug ipv6 rip (all events packet send packet recv packet packet detail nsm rib)	3233
no debug ipv6 rip (all events packet send packet recv packet packet detail nsm rib)	3233
clear ipv6 rip route (connected static isis ospf6 bgp rip all)	3233
clear ipv6 rip route X:X::X:X/M	3234
IPI-RIPNG-VRF	3234
Configure vrf name	3234
Configure enable cisco metric behavior	3234
Configure vrf enable-cisco-metric-behavior	3235
Configure passive interfaces	3235
Configure distance	3236
Configure static routes	3237
Configure aggregate prefixes	3237
Configure default metric	3238
Configure originate default route	3238
Configure receive buffer size	3239
Configure route type	3239
Configure route map	3240
Configure metric	3241
Configure redistribute-policy route-map	3241
Configure route table update interval	3242
Configure address	3243
Configure type	3244
Configure access list name	3244
Configure direction	3245
Configure list name	3246
Configure offset-list metric	3247
Configure distribute-list direction	3248
Configure distribute-prefix-list direction	3249

IPI-ARP	3249
Configure ip address	3249
Configure respond to arp request	3250
Configure icmp redirect	3251
Configure enable	3251
Configure enable proxy arp	3251
Configure enable local proxy arp	3252
Configure enable ip redirects	3252
Configure arp ageing timeout	3253
Configure arp reachable time	3253
debug ip arp event	3254
no debug ip arp event	3254
clear arp (A.B.C.D) (vrf (all VRFNAME default))	3254
clear arp IFNAME (vrf (all VRFNAME default))	3255
IPI-NEIGHBOR-DISCOVERY	3255
Configure interface name	3255
Configure enable	3256
Configure nd ageing timeout	3256
Configure nd reachable time	3256
Configure no ip unreachable	3257
Configure no ipv6 unreachable	3257
debug ipv6 nd event	3258
no debug ipv6 nd event	3258
clear ipv6 neighbors (X:X::X:X/M) (vrf (all VRFNAME default))	3258
clear ipv6 neighbors IFNAME (vrf (all VRFNAME default))	3259
IPI-USER-SESSION-MANAGEMENT	3259
Configure console id	3259
Configure privilege level	3260
Configure command history max limit	3260
Configure seconds	3261
Configure minutes	3261
Configure vty id	3262
Configure vty command-history-max-limit	3262
Configure timeout seconds	3263
Configure timeout minutes	3264
clear line WORD	3264
mem-info imi monitor-start	3265
mem-info imi monitor-stop	3265
IPI-IPV6-ROUTER-ADV	3265
Configure suppress ra	3265
Configure suppress ra mtu	3266
Configure managed flag	3266
Configure other config flag	3267
Configure current hop limit	3267
Configure link mtu	3268
Configure dad attempts	3268
Configure off link	3269

Configure no auto configuration	3270
Configure valid lifetime	3270
Configure preferred lifetime	3271
Configure ipv6 address	3271
Configure name	3272
Configure ipv6-prefix off-link	3273
Configure ipv6-prefix no-auto-configuration	3274
Configure ipv6-prefix no-auto-configuration	3275
Configure reachable time	3276
Configure retransmission time	3276
Configure router lifetime	3277
Configure max ra interval	3278
IPI-ERPSV2	3278
Configure ring name	3278
Configure east interface	3279
Configure west interface	3279
Configure description	3280
Configure profile name	3280
Configure wait to restore timer	3281
Configure hold off timer	3282
Configure guard time	3282
Configure protection mode	3283
Configure name	3283
Configure erp-instance ring-name	3284
Configure mapped profile name	3284
Configure ring type	3285
Configure enable tcn propagation	3285
Configure tcn to instances	3286
Configure non virtual channel	3286
Configure ring id	3287
Configure erp-instance description	3287
Configure associate ring name	3288
Configure owner port id	3289
Configure neighbor port id	3289
Configure next neighbor port id	3290
Configure non owner	3290
Configure level	3291
Configure vlan id	3292
Configure data vlan	3292
Configure attached instance	3293
Configure options	3294
Configure instance name	3294
g8032 erp-instance (INSTANCENAME all) (force-switch manual-switch) (east- interface west-interface)	3295
clear g8032 erp-instance (INSTANCENAME all)	3295
clear g8032 aps-statistics INSTANCENAME	3295
debug g8032 (all tx rx fsm timers events external hal)	3296

no debug g8032 (all tx rx fsm timers events external hal)	3296
IPI-G8031	3296
Configure working port	3296
Configure protection port	3297
Configure elps instance id	3297
Configure data vlans	3298
Configure primary vlan	3298
IPI-G8031-ELPS	3299
Configure wait to restore	3299
Configure hold off	3300
Configure local freeze	3300
Configure protection type	3301
Configure enable revertive mode	3301
Configure level identifier	3302
Configure name	3303
Configure mode	3303
Configure switching mode	3304
Configure timer hold off	3304
Configure timer wait to restore	3305
Configure group name	3305
Configure working port	3306
Configure protection port	3306
Configure eps-instances name	3307
Configure eps protection group	3307
Configure g8031 profile name	3308
Configure level	3309
Configure inner vlan id	3309
Configure data vlan	3310
Configure options	3310
lockout g8031 eps-instance INSTANCENAME	3311
exercise g8031 eps-instance INSTANCENAME	3311
debug g8031 (all rx tx fsm events hal)	3312
no debug g8031 (all rx tx fsm events hal)	3312
g8031 eps-instance (INSTANCENAME all) (local-freeze local-lockout force-switch manual-switch-working manual-switch-protection lockout exercise)	3312
clear g8031 eps-instance (INSTANCENAME all) ((local-freeze local-lockout))	3313
IPI-CFM	3313
Configure cache enable	3313
Configure cache size	3314
Configure options	3314
Configure type	3315
Configure ma name	3315
Configure enable rmep auto discovery	3316
Configure bridge id	3317
Configure md name	3317
Configure mip creation	3318
Configure inner vlan id	3319

Configure link level ma.	3320
Configure mip interface name	3320
Configure evpn id.	3321
Configure vpws vc name	3322
Configure ccm interval	3322
Configure static rmep identifiers	3323
Configure mep id	3324
Configure direction.	3325
Configure administrative state	3326
Configure remote vpws vc name	3327
Configure remote evpn id.	3328
Configure maintenance-end-points mep-id	3329
Configure remote vtep ip	3330
Configure bw mapped interface	3331
Configure enable cc multicast	3332
Configure mep rmep auto discovery	3333
Configure lowest fault priority defect	3334
Configure mep rmep cross check	3335
clear ethernet cfm maintenance-points remote domain DOMAIN_NAME	3336
clear ethernet cfm statistics	3336
clear ethernet cfm statistics mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3336
cfm snmp restart	3337
debug ethernet cfm (events rx tx loopback traceroute all pathtrace)	3337
no debug ethernet cfm (events rx tx loopback traceroute all pathtrace)	3337
clear ethernet cfm traceroute-cache	3338
IPI-CFM-VXLAN-OAM	3338
Configure mode	3338
Configure enable	3338
IPI-CFM-Y1731	3339
Configure enable receive	3339
Configure wait to restore timer	3340
Configure peer port id	3341
Configure adaptive bandwidth disable	3342
Configure maintenance-domains md-name	3343
Configure md name	3344
Configure lock state	3345
Configure client md level	3345
Configure interval.	3346
Configure priority	3347
Configure enable status	3348
Configure ma name	3349
Configure enable lm responder	3350
Configure enable dm responder	3351
Configure profile name.	3352
Configure mode	3352
Configure test type.	3353
Configure frame size	3353

Configure pattern type	3354
Configure eir	3354
Configure cir	3355
Configure cir unit	3356
Configure cir cos	3357
Configure cir dei	3358
Configure ethernet-loss-measurement-profiles profile-name	3359
Configure message period	3359
Configure measurement type	3360
Configure measurement interval	3360
Configure ethernet-loss-measurement-profile message-period	3361
Configure intervals stored	3361
Configure ethernet-delay-measurement-profiles profile-name	3362
Configure ethernet-delay-measurement-profile message-period	3362
Configure ethernet-delay-measurement-profile measurement-interval	3363
Configure ethernet-delay-measurement-profile intervals-stored	3363
Configure bins per fd interval	3364
Configure bins per ifdv interval	3365
Configure bin number	3365
abort test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191>	3366
test-signal start-time (relative) <0-4294967295> stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC <1-8191>)	3366
test-signal start-time (absolute) START-TIME stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC <1-8191>)	3368
test-signal start-time (relative) <0-4294967295> stop-time (absolute) STOP-TIME tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC <1-8191>)	3369
test-signal start-time (absolute) START-TIME stop-time (absolute) STOP-TIME tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC <1-8191>)	3370
loss-measurement type proactive profile-name WORD rmep (mac-address MAC <1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3371
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3372
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3373
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3374
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3375
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3376

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3377
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3379
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3380
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3381
abort loss-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME . . .	3382
clear ethernet cfm loss-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3383
delay-measurement type proactive profile-name WORD rmep (mac-address MAC <1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3383
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3384
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3385
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3386
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3387
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3388
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3390
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3391
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3392
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC <1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3393
abort delay-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME . . .	3395
clear ethernet cfm delay-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME	3395
clear ethernet cfm statistics csf mep <1-8191> domain DOMAIN_NAME ma MA_NAME . . .	3396
clear ethernet cfm statistics bn mep <1-8191> domain DOMAIN_NAME ma MA_NAME . . .	3396

clear ethernet cfm statistics lck mep <1-8191> domain DOMAIN_NAME ma MA_NAME . . .	
3397	
clear ethernet cfm statistics test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191> stats (gtf ctf)	3397
IPI-UDLD	3398
Configure enable	3398
Configure message time	3398
Configure options	3399
Configure mode	3399
Configure administrative state	3400
debug udld (event packet timer nsm hal all)	3400
no debug udld (event packet timer nsm hal all)	3400
IPI-PTP	3401
Configure instance type	3401
Configure color frame	3401
Configure drop frame	3402
Configure denominator	3403
Configure number ports	3403
Configure default-data-set number-ports	3404
Configure I2 pkt forward	3404
Configure domain	3405
Configure servo config	3406
Configure external clock holdover duration	3406
Configure system clock sync	3407
Configure ptp clock sync	3407
Configure ptsf wtr duration	3408
Configure g8265p1 wtr duration	3409
Configure g8265p1 option	3409
Configure reserved vlan base	3410
Configure two step	3410
Configure clock type tgm	3411
Configure one way	3412
Configure pps pulse offset	3412
Configure pps in smx tod type	3413
Configure priority 1	3413
Configure priority 2	3414
Configure slave only	3415
Configure local priority	3415
Configure max steps removed	3416
Configure start boundary hops	3416
Configure servo history interval	3417
Configure clock class	3418
Configure clock accuracy	3418
Configure offset scaled log variance	3419
Configure offset nano seconds	3420
Configure port number	3420
Configure ports port-number	3421

Configure port local-priority	3422
Configure description	3422
Configure transport type	3423
Configure transport v6 multicast type	3424
Configure non forwardable mac addr.	3424
Configure log min delay req interval	3425
Configure log announce interval	3426
Configure announce receipt timeout	3427
Configure log sync interval.	3427
Configure time to live	3428
Configure ip dscp	3429
Configure unicast grant duration	3429
Configure master only	3430
Configure grandmaster priority 2	3431
Configure append	3431
Configure process	3432
Configure source ipv6 link local address	3433
Configure source ipv6 interface address	3433
Configure source ipv4 interface address	3434
Configure source ipv6 address	3435
Configure source ipv4 address	3435
Configure clock-quality clock-class	3436
Configure clock-quality clock-accuracy	3437
Configure clock-quality offset-scaled-log-variance	3438
Configure delay asymmetry nsec.	3438
Configure network interface	3439
Configure vlan physical interface name	3440
Configure vlan physical dot1q vlan id	3441
Configure dot1q vlan id	3442
Configure inner dot1q vlan id	3443
Configure master clock source ipv4 address	3444
Configure master ipv4 address priority	3445
Configure master clock source ipv6 address	3445
Configure master ipv6 address priority	3446
Configure io type	3447
Configure utc date	3448
Configure baseline seconds.	3448
Configure enable	3449
Configure hw timestamp	3449
clear ptp clock <0-1> stats	3450
debug ptp	3450
no debug ptp	3450
IPI-EVPN-MPLS	3451
Configure enable evpn mpls	3451
Configure vtep ipv4	3451
Configure mac ageing timer	3451
Configure arp nd refresh time	3452

Configure tenant identifier	3452
Configure vpws identifier	3453
Configure control word	3453
Configure flow label	3454
Configure vrf name	3455
Configure mac holdtime	3455
Configure route map	3456
Configure tenant description	3456
Configure tunnel policy name	3457
Configure irb name	3457
Configure evi learning limit	3458
Configure irb advertise host route	3458
clear mac address-table dynamic evpn-mpls	3459
clear mac address-table dynamic evpn-mpls evid <1-16777215> (address MACADDR) . . .	3459
clear evpn mpls counters (vpn-id <1-16777215>) network (egress) (dst A.B.C.D) . . .	3459
clear evpn mpls counters (vpn-id <1-16777215>) network (ingress)	3460
IPI-TWAMP	3460
Configure enable	3460
Configure administrative state	3461
Configure vrf name	3461
Configure session-reflector enable	3462
Configure session-reflector administrative-state	3463
Configure upstream intf	3463
Configure reflector udp port	3464
Configure sender ip address	3465
Configure sender udp port	3465
Configure options	3466
Configure port	3466
Configure max connection duration	3467
Configure max connections	3467
Configure max connections per client	3467
Configure maximum sessions	3468
Configure maximum sessions per connection	3468
Configure inactivity timeout	3469
Configure server vrf-name	3469
Configure admin enable	3470
Configure admin administrative-state	3470
twamp start test-session WORD packet-count <1-65535> (interval <500-10000>) (delay- threshold <0-1000000>)	3470
twamp stop test-session WORD	3471
debug (twamp)	3471
no debug (twamp)	3472
IPI-ROLE-BASED-ACCESS-CONTROL	3472
Configure policy name	3472
Configure command mode	3473
Configure rule name	3473

Configure rule type	3474
Configure role name	3475
Configure default policy	3475
Configure policies policy-name	3476
Configure enable	3476
IPI-PORT-BREAKOUT	3477
Configure interface	3477
Configure mode	3477
Configure serdes	3478
Configure breakouts interface	3479
Configure breakouts interface	3479
Configure breakouts interface	3480
Configure breakouts interface	3480
Configure breakouts interface	3481
Configure breakouts interface	3482
Configure name	3482
IPI-PCEP	3483
Configure entity id	3483
Configure keep alive interval	3483
Configure dead interval	3484
Configure request timeout	3484
Configure tolerance keepalive	3485
Configure tolerance dead interval	3485
Configure cool off timeout	3486
Configure source address	3486
Configure recovery policy	3487
Configure segment routing v6	3487
Configure pce instantiate	3488
Configure segment routing	3488
Configure redelegation timeout	3489
Configure lsp state timeout	3489
Configure flap interval	3490
Configure interval	3491
Configure lsp limit	3491
Configure options	3492
Configure srv6 spirent comp	3492
debug pcep (events error packet timer update report instantiation delegation request all)) . . .	3493
no debug pcep (events error packet timer update report instantiation delegation request all))	3493
clear pcep request (<5001-65535> all)	3493
IPI-PCEP-PEER	3494
Configure address	3494
Configure delegation preference	3494
Configure authentication key	3495
clear pcep peer *	3496
clear pcep peer (A.B.C.D X:X::X:X)	3496

clear pcep statistics	3496
IPI-SOURCE-INTERFACE	3496
Configure vrf name	3496
Configure interface name.	3497
IPI-TACACS	3498
Configure feature enable	3498
Configure key type	3498
Configure vrf name	3499
Configure host address	3499
Configure sequence number	3500
Configure port	3501
Configure timeout.	3502
Configure server timeout	3503
Configure secret key string	3504
Configure server key-type	3505
Configure server key-type	3506
Configure enable	3507
clear tacacs-server counters (vrf (management NAME all))	3507
clear tacacs-server (A.B.C.D X:X::X:X HOSTNAME) counters (vrf (management NAME all))	3507
debug tacacs+	3508
no debug tacacs+	3508
IPI-TIME-RANGE	3508
Configure name	3508
Configure absolute start time	3509
Configure relative start time	3509
Configure absolute end time	3510
Configure relative end time	3510
Configure frequency.	3511
IPI-CRYPTO	3511
Configure key encryption	3511
crypto pki generate rsa common-name ipv4 IPv4ADDR	3512
crypto pki load (source-interface IFNAME) WORD	3512
IPI-IP-SLA	3512
Configure identifier.	3512
Configure host	3513
Configure source ip	3513
Configure frequency.	3514
Configure timeout.	3515
Configure threshold	3515
Configure vrf name	3516
clear ip sla statistics (<1-65535>)	3517
IPI-SERVICE-MAP	3517
Configure name	3517
Configure color code	3517
Configure selection mode	3518
Configure tunnel type.	3518

IPI-CROSS-CONNECT	3519
Configure xc name	3519
Configure description	3520
Configure admin disable	3520
Configure endpoint if	3521
Configure endpoint if bkp	3522
Configure evc name	3522
IPI-BRIDGE-DOMAIN	3523
Configure domain id	3523
Configure description	3524
Configure route interface	3524
Configure bridge id	3525
Configure instance id	3526
Configure name	3526
Configure mac address	3527
clear mac address-table dynamic bridge-domain all	3528
clear mac address-table dynamic bridge-domain id <1-2147483647> (interface IFNAME) (address MACADDR)	3528
IPI-OBJECT-TRACKING	3529
Configure tracker id	3529
Configure delay down	3529
Configure delay up	3530
Configure select option	3531
Configure track id	3531
IPI-DELAY-PROFILE	3532
Configure profile type	3532
Configure mode	3532
Configure sender port	3533
Configure burst interval	3533
Configure burst count	3534
Configure interval	3534
Configure disable	3535
Configure threshold	3535
Configure minimum change	3536
Configure enable	3536
Configure accelerated-advertisement threshold	3537
Configure accelerated-advertisement minimum-change	3537
Configure enabled	3538
Configure notifications threshold	3539
Configure notifications minimum-change	3539
Configure delay profile enable	3540
Configure delay-profile-clients burst-interval	3540
Configure delay-profile-clients burst-count	3540
IPI-ELK	3541
Configure password	3541
Configure certificate path	3541
service enable metricbeat (vrf management)	3542

service enable filebeat (vrf management)	3542
service disable metricbeat (vrf management)	3543
service disable filebeat (vrf management)	3543
IPI-IPSEC	3543
Configure transform set name	3543
Configure transform set mode	3544
Configure ah authentication	3544
Configure ah-auth ah-authentication	3545
Configure esp encryption	3545
Configure esp authentication	3546
Configure name	3547
Configure sequence id	3547
Configure transform-sets transform-set-name	3548
Configure peer	3549
Configure security parameter index	3550
IPI-EVPN-SRV6	3551
Configure enabled	3551
Configure vtep ipv6 address	3551
Configure mac ageing timer	3552
Configure arp nd refresh time	3552
Configure tenant identifier	3552
Configure vpws identifier	3553
Configure vrf name	3553
Configure mac holdtime	3554
Configure tenant description	3554
Configure tunnel policy name	3555
Configure srv6 locator name	3555
clear mac address-table dynamic evpn-srv6	3556
clear mac address-table dynamic evpn-srv6 evid <1-16777215> (address MACADDR)	3556
clear evpn srv6 counters (vpn-id <1-16777215>) network (egress) (dst X:X::X:X)	3557
clear evpn srv6 counters (vpn-id <1-16777215>) network (ingress)	3557
IPI-SEGMENT-ROUTING-ODN	3558
Configure color	3558
Configure flex algo	3558
Configure cspf retry limit	3559
Configure cspf retry interval	3559
Configure binding sid label	3560
Configure fallback native sr	3560
Configure fallback flex algo	3561
Configure discriminator	3562
Configure preference	3562
Configure pcep	3563
Configure isis instance id	3564
Configure ospf process id	3565
Configure ospf empty	3566
Configure enable	3567

Configure protocol origin	3568
Configure hop limit	3569
Configure metric type	3569
Configure bound	3570
Configure admin group name	3572
Configure extended admin group name	3573
Configure srlg group name	3574
Configure address	3575
Configure ihaf address	3576
Configure originator	3577
Configure segment-rule enable	3578
Configure dataplane type	3579
Configure sid algorithm	3580
Configure protection type	3581
Configure sub id	3582
Configure group id	3583
Configure pce state report	3584
Configure pce entity id	3585
Configure pce lsp delegate	3585
IPI-VM	3586
Configure bridge name	3586
Configure tpid	3587
Configure from match type	3587
Configure from match value	3588
Configure vrf name	3588
Configure enable feature	3589
IPI-HOST	3589
Configure disable service advanced vty	3589
Configure service passwd encryption	3590
Configure system-host service-passwd-encryption	3590
Configure passwd encrypted	3591
Configure term monitor default behavior disable	3591
Configure banner motd	3591
Configure banner motd file	3592
Configure service term length	3592
Configure disable default autoenable	3593
Configure term timestamping	3593
IPI-TWAMP-CLIENT	3593
Configure enable	3593
Configure maximum sessions	3594
Configure maximum connections	3594
Configure maximum sessions per connection	3595
Configure connection name	3595
Configure server address	3596
twamp client start connection NAME (vrf WORD) packet-count <0-1000000>	3596
twamp client stop connection NAME (vrf WORD)	3597
twamp client reset connection NAME (session NAME) (vrf WORD)	3597

IPI-MAX-SESSION-CLI	3598
Configure max session limit	3598
IPI-TWAMP-SESSION	3598
Configure session name	3598
Configure enabled	3599
Configure description	3599
Configure reflector ip	3600
Configure reflector port	3600
Configure sender ip	3601
Configure sender port	3601
Configure vrf name	3602
Configure vpn net interface	3603
Configure dscp	3603
Configure burst interval	3604
Configure burst count	3604
Configure interval	3605
Configure notification enabled	3606
Configure threshold	3606
Configure minimum change	3607
clear twamp session WORD	3607
clear twamp session all	3608
IPI-MAC-LIMIT	3608
Configure mac lim profile name	3608
Configure learning limit	3608
Configure action	3609
Configure high watermark	3609
Configure low watermark	3610
Configure errdisable timeout interval	3610
IPI-MAC-LIST	3611
Configure mac list name	3611
Configure mac addr mask	3611
IPI-SYS-SERVICE-MGMT	3612
Configure system backup content	3612
IPI-K3S	3613
Configure enable	3613
IPI-DOCKER	3613
Configure enable	3613
CHAPTER 2 PYANG Tree	3614
ipi-aaa	3614
ipi-acl	3617
ipi-alarms	3632
ipi-arp	3633
ipi-authentication-radius	3636
ipi-authentication	3637
ipi-bfd	3641
ipi-bgp-vrf	3652

ipi-bgp	3655
ipi-bridge-domain	3726
ipi-bridge	3727
ipi-cfm	3730
ipi-cross-connect	3754
ipi-crypto	3755
ipi-delay-profile	3756
ipi-dhcp	3757
ipi-dns-client	3771
ipi-dns-relay	3773
ipi-docker	3774
ipi-edpl	3775
ipi-elk	3777
ipi-enhanced-pbr	3778
ipi-erpsv2	3781
ipi-aaa	3785
ipi-acl	3788
ipi-alarms	3803
ipi-arp	3804
ipi-authentication-radius	3807
ipi-authentication	3808
ipi-bfd	3812
ipi-bgp-vrf	3823
ipi-bgp	3826
ipi-bridge-domain	3897
ipi-bridge	3898
ipi-cfm	3901
ipi-cross-connect	3925
ipi-crypto	3926
ipi-delay-profile	3926
ipi-dhcp	3928
ipi-dns-client	3942
ipi-dns-relay	3944
ipi-docker	3945
ipi-edpl	3945
ipi-elk	3948
ipi-enhanced-pbr	3949
ipi-erpsv2	3952
ipi-ethernet-vpn	3958
ipi-event-manager	3963
ipi-evpn-mpls	3964
ipi-evpn-srv6	3968
ipi-g8031	3970
ipi-global-te	3975
ipi-host	3976
ipi-hwtable	3977
ipi-if-aggregate	3977

ipi-if-ethernet	3978
ipi-if-extended	3980
ipi-if-flowspec	3993
ipi-if-ip	3993
ipi-igmp-snooping	3996
ipi-igmp	3998
ipi-igp-te	4005
ipi-interface	4009
ipi-ip-sla	4012
ipi-ipsec	4014
ipi-ipv6-router-adv	4016
ipi-isis	4018
ipi-k3s	4067
ipi-keychain	4068
ipi-l2vpn-vpls	4070
ipi-l2vpn-vpws	4081
ipi-lacp	4089
ipi-ldp	4093
ipi-lldpv2	4107
ipi-logging	4115
ipi-mac-limit	4119
ipi-mac-list	4120
ipi-management-server	4121
ipi-mcec	4124
ipi-mlag	4128
ipi-mld-snooping	4129
ipi-mld	4131
ipi-mpls-bfd	4136
ipi-mpls-rib	4139
ipi-mpls	4148
ipi-mrib	4153
ipi-neighbor-discovery	4160
ipi-network-instance	4162
ipi-network-services-manager	4162
ipi-nos-update-notifications	4164
ipi-ntp	4164
ipi-object-tracking	4168
ipi-ospf-interface-tracking	4169
ipi-ospf	4170
ipi-ospfv3	4213
ipi-pbr	4242
ipi-pcep	4243
ipi-pim	4250
ipi-ping	4271
ipi-platform-port	4273
ipi-platform-transceiver-smart-sfp	4273
ipi-platform	4274

ipi-port-breakout	4364
ipi-port-mirror	4365
ipi-port-vlan	4369
ipi-prefix-group	4373
ipi-prefix-list	4374
ipi-ptp	4376
ipi-qos-if	4387
ipi-qos	4393
ipi-radius	4407
ipi-ras	4409
ipi-rib-vrf	4410
ipi-rib	4417
ipi-rip	4424
ipi-ripng	4434
ipi-role-based-access-control	4443
ipi-routemap	4444
ipi-rsvp	4451
ipi-sat	4477
ipi-seamless-bfd	4486
ipi-segment-routing	4487
ipi-service-map	4503
ipi-service-tracking	4504
ipi-sflow-interface	4504
ipi-sflow-ipfix	4506
ipi-sflow	4507
ipi-snmp-server-extended	4509
ipi-snmp-server	4514
ipi-snmp	4515
ipi-source-interface	4516
ipi-ssh	4517
ipi-streaming-telemetry	4522
ipi-synce	4526
ipi-sys-mgmt	4530
ipi-sys-notifications	4530
ipi-sys-service-mgmt	4531
ipi-sys-update	4531
ipi-system	4533
ipi-tacacs	4534
ipi-telnet	4536
ipi-tfo	4537
ipi-time-range	4538
ipi-twamp	4539
ipi-udld	4552
ipi-unicast-rpf	4553
ipi-user-management	4554
ipi-user-session-management	4555

Preface

This guide describes how to configure OcNOS.

Audience

This guide is intended for network administrators and other engineering professionals who configure OcNOS.

Conventions

Table 1 on page 119 shows the conventions used in this guide.

Table 1: Conventions

Convention	Description
Italics	Emphasized terms or titles of books
Note:	Special instructions, suggestions, or warnings
<code>monospaced type</code>	Code elements such as commands, parameters, files, and directories

IP Infusion Product Release Version

Each integer in release number indicates Major, Minor, and Maintenance release versions. Build numbers that follow the release numbers are for internal tracking and verification of the software build process and are visible to customers as part of the software version number.



Product Name: IP Infusion Product Family

Major Version: New customer-facing functionality that represents a significant change to the code base; including, a significant marketing change or direction in the product.

Minor Version: Enhancements or extensions to existing features, changes to address external needs, or internal improvements might be motivated by improvements to satisfy new sales regions or marketing initiatives.

Maintenance Version: A collection of product bugs or hotfixes usually scheduled every 30 or 60 days, based on the number of hotfixes.

Related Documentation

For information about installing OcNOS, see the *Installation Guide* for your platform.

Feature Availability

Each OcNOS SKU contains a set of supported features. For a list of available features based on the SKU that you purchased. Refer to the *Feature Matrix*.

Migration Guide

Check the *Migration Guide* for necessary configuration changes before migrating from one version of OcNOS to another.

IP Maestro Support

Monitor devices running OcNOS Release 6.3.4-70 and above using IP Maestro software.

Technical Support

IP Infusion maintains an online technical support site that provides a variety of technical support programs for licensed OcNOS customers at the [Technical Assistance Center](#).

Customers and partners enjoy full access to the support website. The site allows customers and partners to open technical support calls, update open calls with new information, and review the status of open or closed calls. The password-protected site includes technical documentation, Release Notes, and descriptions of service offerings.

Technical Sales

Contact the IP Infusion sales representative for more information about the OcNOS solution.

Technical Documentation

For core commands and configuration procedures, visit: [Product Documentation](#).

For training videos, visit: [OcNOS Free Training Videos](#).

For a list of supported platforms and SKUs of OcNOS features, refer to the [OcNOS Feature Matrix](#).

Disclaimer

The global documentation site is evolving to provide an enhanced website user experience for select topics included in this release. Some guides are now available outside the existing documentation library and can be accessed directly from custom documentation landing pages. These guides offer robust in-built search functionality.

For the latest documentation, visit the product-specific documentation landing page and select the relevant guide.

Comments

If you have comments, or need to report a problem with the content, contact techpubs@ipinfusion.com.

CHAPTER 1 NetConf Command Reference

IPI-MANAGEMENT-SERVER

Configure feature enabled

Enable callhome feature on the NETCONF server

This command is supported when following feature are enabled NETCONF feature

Attribute Name: feature-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
    <callhome>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </feature-enabled>
  </callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
callhome enable (vrf (management|NAME) |)
```

Configure port

Callhome server listening port number

This command is supported when following feature are enabled NETCONF feature

Attribute Name: port

Attribute Type: inet:port-number

Default Value: 4334

Attribute Range: 1-65535

Attribute Name: address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
```

```

<callhome>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</netconf-clients>
<netconf-client>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    <address>A.B.C.D|X:X::X:X|HOSTNAME</address>
  </config>
  <port>1</port>
</netconf-client>
</netconf-clients>
</callhome>
</callhomes>
</netconf-server>

```

Command Syntax

```
callhome server WORD (A.B.C.D|X:X::X:X|HOSTNAME) (port <1-65535>|)
```

Configure enable

specifies whether server will reconnect after client closes the session

This command is supported when following feature are enabled NETCONF feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
    <callhome>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </callhome>
  </callhomes>
  <reconnect>
    <config>
      </enable>
    </config>
  </reconnect>
</netconf-server>

```

Command Syntax

```
reconnect enable
```

Configure retry max attempts

Specifies the number of retry attempts the server should attempt to the callhome server before giving up. Set 0 to retry infinitely.

This command is supported when following feature are enabled NETCONF feature

Attribute Name: retry-max-attempts

Attribute Type: uint8

Default Value: 3

Attribute Range: 0-255

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
    <callhome>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </callhome>
  </callhomes>
  <reconnect>
    <config>
      <retry-max-attempts>0</retry-max-attempts> <!-- operation="delete"-->
    </config>
  </reconnect>
</netconf-server>
```

Command Syntax

```
retry-max-attempts <0-255>
```

Configure retry interval

Specifies the number of seconds to wait after a connect attempt to the callhome server has failed

This command is supported when following feature are enabled NETCONF feature

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 300

Attribute Range: 1-86400

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
    <callhome>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </callhome>
  </callhomes>
</netconf-server>
```



```

    </config>
  </reconnect>
  <config>
    <retry-interval>1</retry-interval> <!-- operation="delete"-->
  </config>
</reconnect>
</callhome>
</callhomes>
</netconf-server>

```

Command Syntax

```
retry-interval <1-86400>
```

Configure vrf name

Enable debugging info for callhome

This command is supported when following feature are enabled NETCONF feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhomes>
    <callhome>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </callhome>
  </callhomes>
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</netconf-server>

```

Command Syntax

```
debug callhome
```

Configure translation mode

Enable/disable NETCONF translation

This command is supported when following feature are enabled NETCONF feature,NETCONF translation feature

Attribute Name: translation-mode

Attribute Type: enum (openconfig)

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <netconf-translation>
    <config>
      <translation-mode>openconfig</translation-mode> <!-- operation="delete"-->
    </config>
  </netconf-translation>
</netconf-server>
```

Command Syntax

```
netconf translation (openconfig)
```

Configure feature netconf ssh

Use this attribute to enable or disable NETCONF SSH feature.

This command is supported when following feature are enabled NETCONF feature, Virtual routing and forwarding

Attribute Name: feature-netconf-ssh

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <netconf-ssh-config>
    <config>
      </feature-netconf-ssh><!-- operation="delete"-->
    </config>
  </netconf-ssh-config>
</netconf-server>
```

Command Syntax

```
feature netconf-ssh (vrf (management|NAME) |)
```

Configure ssh port

Use this attribute to set the ssh-port number on which the NETCONF server listens for connections. The default port on which the netconf-ssh server listens is 830.

This command is supported when following feature are enabled NETCONF feature, Virtual routing and forwarding

Attribute Name: ssh-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</netconf-ssh-config>
<config>
  <ssh-port>1024</ssh-port> <!-- operation="delete"-->
</config>
</netconf-ssh-config>
</vrf>
</vrfs>
</netconf-server>

```

Command Syntax

```
netconf server ssh-port <1024-65535> (vrf (management|NAME) |)
```

Configure disable default ssh port

Use this attribute to disable the ssh-port number on which the NETCONF server listens for connections. The default port on which the netconf-ssh server listens is 22/830. Hence disabling 22.

This command is supported when following feature are enabled NETCONF feature, Virtual routing and forwarding

Attribute Name: disable-default-ssh-port

Attribute Type: empty

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</netconf-ssh-config>
<config>
  </disable-default-ssh-port><!-- operation="delete"-->
</config>
</netconf-ssh-config>
</vrf>
</vrfs>
</netconf-server>

```

Command Syntax

```
netconf-server disable default-ssh-port (vrf (management|NAME) |)
```

Configure feature netconf tls

Use this attribute to enable or disable NETCONF TLS feature.

This command is supported when following feature are enabled NETCONF feature, Virtual routing and forwarding

Attribute Name: feature-netconf-tls

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <netconf-tls-config>
    <config>
      </feature-netconf-tls><!-- operation="delete"-->
    </config>
  </netconf-tls-config>
</netconf-server>
```

Command Syntax

```
feature netconf-tls (vrf (management|NAME) |)
```

Configure tls port

Use this attribute to set the tls-port number on which the NETCONF server listens for connections. The default port on which the netconf-tls server listens is 6513.

This command is supported when following feature are enabled NETCONF feature, Virtual routing and forwarding

Attribute Name: tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <netconf-tls-config>
    <config>
      <tls-port>1024</tls-port> <!-- operation="delete"-->
    </config>
  </netconf-tls-config>
</netconf-server>
```

```

</config>
</netconf-tls-config>
</vrf>
</vrfs>
</netconf-server>

```

Command Syntax

```
netconf server tls-port <1024-65535> (vrf (management|NAME) |)
```

Configure netconf tls disable default instance

Use this attribute to prevent default netconf-tls server config from being enabled at start up

This command is supported when following feature are enabled NETCONF feature

Attribute Name: netconf-tls-disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <netconf-tls-default-instance>
    <config>
      </netconf-tls-disable-default-instance><!-- operation="delete"-->
    </config>
  </netconf-tls-default-instance>
</netconf-server>

```

Command Syntax

```
netconf-tls disable-default
```

Configure netconf ssh disable default instance

Use this attribute to prevent default netconf-ssh server config from being enabled at start up

This command is supported when following feature are enabled NETCONF feature

Attribute Name: netconf-ssh-disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```

<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <netconf-ssh-default-instance>
    <config>
      </netconf-ssh-disable-default-instance><!-- operation="delete"-->
    </config>
  </netconf-ssh-default-instance>
</netconf-server>

```

Command Syntax

```
netconf-ssh disable-default
```

Configure notification-cache feature-enabled

Enable notification cache feature on the NETCONF server

This command is supported when following feature are enabled NETCONF feature

Attribute Name: feature-enabled

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <notification-cache>
    <config>
      </feature-enabled>
    </config>
  </notification-cache>
</netconf-server>
```

Command Syntax

```
feature netconf notification-cache enable
```

Configure max cache notifications

Specifies the maximum number of notifications those can be stored in cache. Set 0 for infinite notifications.

This command is supported when following feature are enabled NETCONF feature

Attribute Name: max-cache-notifications

Attribute Type: uint16

Default Value: 100

Attribute Range: 0-10000

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <notification-cache>
    <config>
      <max-cache-notifications>0</max-cache-notifications> <!-- operation="delete"-->
    </config>
  </notification-cache>
</netconf-server>
```

Command Syntax

```
max-cache-notifications <0-10000>
```

Configure cache period

Specifies the number of seconds, cmdl store notification messages in cache since it started

This command is supported when following feature are enabled NETCONF feature

Attribute Name: cache-period

Attribute Type: uint32

Default Value: 1200

Attribute Range: 1-3600

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <notification-cache>
    <config>
      <cache-period>1</cache-period> <!-- operation="delete"-->
    </config>
  </notification-cache>
</netconf-server>
```

Command Syntax

```
cache-period <1-3600>
```

Configure disable commit history

This attribute is used to disable features like commit confirmed and commit rollback

Attribute Name: disable-commit-history

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <commit-history>
    <config>
      </disable-commit-history><!-- operation="delete"-->
    </config>
  </commit-history>
</netconf-server>
```

Command Syntax

```
cml commit-history disable
```

Configure bulk config cpu limit enabled

This attribute is used to enable and disable bulk config cpu limit

Attribute Name: bulk-config-cpu-limit-enabled

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <bulk-config>
    <config>
      </bulk-config-cpu-limit-enabled><!-- operation="delete"-->
    </config>
  </bulk-config>
</netconf-server>
```

```
</netconf-server>
```

Command Syntax

```
cml bulk-config limit cpu enable
```

IPI-STREAMING-TELEMETRY

Configure config maximum subscribe paths

Maximum number of sensor-paths supported for this device

Attribute Name: config-maximum-subscribe-paths

Attribute Type: uint32

Attribute Range: 10-1000

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <global>
    <config>
      <config-maximum-subscribe-paths>10</config-maximum-subscribe-paths> <!--
operation="delete"-->
    </config>
  </global>
</telemetry-system>
```

Command Syntax

```
telemetry maximum-subscribe-paths <10-1000>
```

Configure config minimum sample interval

Minimum sample-interval supported for this device

Attribute Name: config-minimum-sample-interval

Attribute Type: uint32

Attribute Range: 10-3600

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <global>
    <config>
      <config-minimum-sample-interval>10</config-minimum-sample-interval> <!--
operation="delete"-->
    </config>
  </global>
</telemetry-system>
```


Command Syntax

```
telemetry minimum-sample-interval <10-3600>
```

Configure feature enabled

Use this attribute to enable or disable Telemetry feature

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: feature-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <streaming-telemetry>
      <config>
        </feature-enabled>
      </config>
    </streaming-telemetry>
  </vrf>
</vrfs>
</telemetry-system>
```

Command Syntax

```
feature streaming-telemetry (vrf (management|NAME) |)
```

Configure insecure tls

Disable certificate validation in a TLS-enabled connection

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: insecure-tls

Attribute Type: empty

Attribute Name: tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
```

```

    <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
<streaming-telemetry>
<config>
  <tls-port>1024</tls-port> <!-- operation="delete"-->
  </insecure-tls><!-- operation="delete"-->
</config>
</streaming-telemetry>
</vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
tls tls-port <1024-65535> (insecure|)
```

Configure non tls port

Insecure port for Telemetry feature

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: non-tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```

<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </streaming-telemetry>
  <config>
    <non-tls-port>1024</non-tls-port> <!-- operation="delete"-->
  </config>
</streaming-telemetry>
</vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
port <1024-65535>
```

Configure retry interval

If the grpc-tunnel-server is unreachable, the gnmi-server retries to connect with gnmi-client after the retry-interval

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 60

Attribute Range: 30-3000

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <streaming-telemetry>
    <retry>
      <config>
        <retry-interval>30</retry-interval> <!-- operation="delete"-->
      </config>
    </retry>
  </streaming-telemetry>
</telemetry-system>
```

Command Syntax

```
grpc-tunnel-server retry-interval <30-3000>
```

Configure name

Reference to the identifier of the subscription itself. The id will be the handle to refer to the subscription once created

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
    </vrf>
  </vrfs>
  <config>
```

```

        <vrf-name>management</vrf-name>
    </config>
<subscriptions>
<persistent-subscriptions>
<persistent-subscription> <!-- operation="delete"-->
    <name>NAME</name>
    <config>
        <name>NAME</name>
    </config>
</persistent-subscription>
</persistent-subscriptions>
</subscriptions>
</vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
subscription-name NAME (vrf (management|NAME) |)
```

Configure encoding

Selection of the specific encoding or RPC framework for telemetry messages to and from the network element. The encoding method controls specifically the wire format of the telemetry data, and also controls which RPC framework may be in use to exchange telemetry data

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: encoding

Attribute Type: enum (json-ietf|json|proto)

Netconf edit-config payload

```

<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
    <vrfs>
    <vrf>
        <vrf-name>management</vrf-name>
        <config>
            <vrf-name>management</vrf-name>
        </config>
    </subscriptions>
    <persistent-subscriptions>
    <persistent-subscription>
        <name>NAME</name>
        <config>
            <name>NAME</name>
        </config>
        <encoding>json-ietf</encoding> <!-- operation="delete"-->
    </persistent-subscription>
    </persistent-subscriptions>
    </subscriptions>
    </vrf>

```

```
</vrfs>
</telemetry-system>
```

Command Syntax

```
encoding (json-ietf|json|proto)
```

Configure sensor group

Reference to the telemetry sensor group name

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group

Attribute Type: string

Attribute Range: 1-64

Attribute Name: sample-interval

Attribute Type: uint64

Attribute Range: 10-3600

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <subscriptions>
    <persistent-subscriptions>
      <persistent-subscription>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      </persistent-subscription>
    </persistent-subscriptions>
  </subscriptions>
  <sensor-profiles>
    <sensor-profile> <!-- operation="delete"-->
      <sensor-group>SENSOR-GROUP-NAME</sensor-group>
      <config>
        <sensor-group>WORD</sensor-group>
        <sample-interval>10</sample-interval>
      </config>
    </sensor-profile>
  </sensor-profiles>
</telemetry-system>
```

```
</telemetry-system>
```

Command Syntax

```
sensor-group SENSOR-GROUP-NAME sample-interval <10-3600>
```

Configure group id

The destination group id references a configured group of destinations for the telemetry stream

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <subscriptions>
    <persistent-subscriptions>
      <persistent-subscription>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
        <destination-groups>
          <destination-group> <!-- operation="delete"-->
            <group-id>GRPC-GROUP-NAME</group-id>
            <config>
              <group-id>WORD</group-id>
            </config>
          </destination-group>
        </destination-groups>
      </persistent-subscription>
    </persistent-subscriptions>
  </subscriptions>
</telemetry-system>
```

Command Syntax

```
destination-group GRPC-GROUP-NAME
```

Configure sensor group id

Name or identifier for the sensor group itself. Will be referenced by other configuration specifying a sensor group

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <sensor-groups>
    <sensor-group> <!-- operation="delete"-->
      <sensor-group-id>SENSOR-NAME</sensor-group-id>
      <config>
        <sensor-group-id>WORD</sensor-group-id>
      </config>
    </sensor-group>
  </sensor-groups>
</telemetry-system>
```

Command Syntax

```
sensor-group SENSOR-NAME (vrf (management|NAME) |)
```

Configure path

Reference to the path of interest

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: path

Attribute Type: string

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
</telemetry-system>
```

```

    </config>
  <sensor-groups>
  <sensor-group>
    <sensor-group-id>SENSOR-NAME</sensor-group-id>
    <config>
      <sensor-group-id>WORD</sensor-group-id>
    </config>
    <sensor-paths>
    <sensor-path> <!-- operation="delete"-->
      <path>SENSOR-PATH</path>
      <config>
        <path>WORD</path>
      </config>
    </sensor-path>
  </sensor-paths>
</sensor-group>
</sensor-groups>
</vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
sensor-path SENSOR-PATH
```

Configure vrf name

Unique identifier for the destination group

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
  <vrf>
    <vrf-name>management</vrf-name>
    <config>
      <vrf-name>management</vrf-name>
    </config>
  </vrf>
</vrfs>
  <destination-groups>
  <destination-group> <!-- operation="delete"-->
    <group-id>TUNNEL-NAME</group-id>
    <config>
      <group-id>WORD</group-id>
    </config>
  </destination-group>
</destination-groups>

```



```

</vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
destination-group TUNNEL-NAME (vrf (management|NAME) |)
```

Configure destination port

Reference to the port number of the stream destination

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: destination-port

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <destination-groups>
    <destination-group>
      <group-id>TUNNEL-NAME</group-id>
      <config>
        <group-id>WORD</group-id>
      </config>
      <destinations>
      <destination> <!-- operation="delete"-->
        <destination-port>1</destination-port>
        <config>
          <destination-port>1</destination-port>
          <destination-address>A.B.C.D</destination-address>
        </config>
        <destination-address>A.B.C.D</destination-address>
      </destination>
    </destinations>
    </destination-group>
    </destination-groups>
  </vrf>
</vrfs>
</telemetry-system>

```

Command Syntax

```
tunnel-server ip A.B.C.D port <1-65535>
```

Configure gnmi severity

device's debug telemetry severity level

Attribute Name: gnmi-severity

Attribute Type: enum (debug|info|warning|error|fatal|panic|d-panic)

Default Value: error

Attribute Name: gnmi-debug

Attribute Type: empty

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <debug>
    <config>
      </gnmi-debug><!-- operation="delete"-->
      <gnmi-severity>error</gnmi-severity> <!-- operation="delete"-->
    </config>
  </debug>
</telemetry-system>
```

Command Syntax

```
debug telemetry gnmi enable severity (debug|info|warning|error|fatal|panic|d-panic)
```

Configure gnmi debug

Enable or Disable device's debug telemetry

Attribute Name: gnmi-debug

Attribute Type: empty

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <debug>
    <config>
      </gnmi-debug>
    </config>
  </debug>
</telemetry-system>
```

Command Syntax

```
debug telemetry gnmi enable
```

Configure enable cpu limit

Enable CPU monitoring for streaming telemetry

Attribute Name: enable-cpu-limit

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <cpu-monitoring>
    <config>
      <enable-cpu-limit>enable</enable-cpu-limit>
    </config>
  </cpu-monitoring>
</telemetry-system>
```

Command Syntax

```
telemetry cpu-monitor (enable)
```

Configure cpu-monitoring enable-cpu-limit

Enable CPU monitoring for streaming telemetry

Attribute Name: enable-cpu-limit

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <cpu-monitoring>
    <config>
      <enable-cpu-limit>enable</enable-cpu-limit>
    </config>
  </cpu-monitoring>
</telemetry-system>
```

Command Syntax

```
telemetry cpu-monitor (disable)
```

Configure suppress threshold

Set CPU threshold for suppressing active streaming

Attribute Name: suppress-threshold

Attribute Type: uint16

Default Value: 40

Attribute Range: 20-80

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <cpu-monitoring>
    <config>
      <suppress-threshold>20</suppress-threshold> <!-- operation="delete"-->
    </config>
  </cpu-monitoring>
</telemetry-system>
```

```

</config>
</cpu-monitoring>
</telemetry-system>

```

Command Syntax

```
suppress-threshold <20-80>
```

Configure no-suppress-grps sensor-group-id

Reference to the sensor group which is used in the profile

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
  <cpu-monitoring>
    <no-suppress-grps>
      <no-suppress-grp> <!-- operation="delete"-->
        <sensor-group-id>SENSOR-GROUP</sensor-group-id>
      <config>
        <sensor-group-id>SENSOR-GROUP</sensor-group-id>
        <vrf-name>management</vrf-name>
      </config>
    </no-suppress-grp>
  </no-suppress-grps>
</cpu-monitoring>
</telemetry-system>

```

Command Syntax

```
do-not-suppress (vrf (management|NAME) |) sensor-group-id SENSOR-GROUP
```

IPI-SAT

Configure rate pname

SAT profile name

Attribute Name: rate-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile> <!-- operation="delete"-->
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
    </rate-profile>
  </rate-profiles>
</sat>
```

Command Syntax

```
ethernet sat rate-profile NAME
```

Configure two way

Used to set/unset two-way

Attribute Name: two-way

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
      </two-way><!-- operation="delete"-->
    </rate-profile>
  </rate-profiles>
</sat>
```

Command Syntax

```
two-way
```

Configure color aware

Used to set/unset the color-aware

Attribute Name: color-aware

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
```

```

    <config>
      <rate-pname>WORD</rate-pname>
    </config>
  </color-aware><!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>

```

Command Syntax

color-aware

Configure load step

Specify the load-step

Attribute Name: load-step

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
      <load-step>1</load-step> <!-- operation="delete"-->
    </rate-profile>
  </rate-profiles>
</sat>

```

Command Syntax

load-steps <1-10>

Configure mode

Use this attribute to set/unset the SAT mode

Attribute Name: mode

Attribute Type: enum (generator|receiver|generator-receiver)

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>

```

```

    </config>
    <mode>generator</mode> <!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>

```

Command Syntax

```
mode (generator|receiver|generator-receiver)
```

Configure cir

committed information rate

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Name: cir-dei

Attribute Type: uint8

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
    <committed-information-rate>
      <config>
        <cir-unit>kbps</cir-unit>
        <cir-cos>0</cir-cos>
        <cir-dei>0</cir-dei>
        <cir>1</cir>
      </config>
    </committed-information-rate>
  </rate-profile>
</rate-profiles>
</sat>

```

Command Syntax

```
cir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure eir

Excess Information Rate

Attribute Name: eir

Attribute Type: uint64

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: eir-cos

Attribute Type: uint8

Attribute Name: eir-dei

Attribute Type: uint8

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
    <excess-information-rate>
      <config>
        <eir-unit>kbps</eir-unit>
        <eir-cos>0</eir-cos>
        <eir-dei>0</eir-dei>
        <eir>1</eir>
      </config>
    </excess-information-rate>
  </rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
eir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure min rate

Configures the unit for maximum delay rate as milli-secs/micro-secs/nano-secs

Attribute Name: min-rate

Attribute Type: enum (ms|us|ns)

Attribute Name: min-range

Attribute Type: uint16

Attribute Name: max-rate

Attribute Type: enum (ms|us|ns)

Attribute Name: max-range

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <rate-profiles>
    <rate-profile>
      <rate-pname>NAME</rate-pname>
      <config>
        <rate-pname>WORD</rate-pname>
      </config>
    </rate-profile>
  </rate-profiles>
  <delay-bins>
    <config>
      <min-range>1</min-range>
      <max-rate>ms</max-rate>
      <max-range>1</max-range>
      <min-rate>ms</min-rate>
    </config>
  </delay-bins>
</sat>
```

Command Syntax

```
delay-bins min (ms|us|ns) <1-4000> max (ms|us|ns) <1-400>
```

Configure acceptance pname

SAT acceptance profile name

Attribute Name: acceptance-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <acceptance-profiles>
    <acceptance-profile> <!-- operation="delete"-->
      <acceptance-pname>NAME</acceptance-pname>
      <config>
        <acceptance-pname>WORD</acceptance-pname>
      </config>
    </acceptance-profile>
  </acceptance-profiles>
</sat>
```

Command Syntax

```
ethernet sat acceptance-profile NAME
```

Configure cir frame loss ratio

Specify the cir frame loss ratio

Attribute Name: cir-frame-loss-ratio

Attribute Type: string

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <acceptance-profiles>
    <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
        <acceptance-pname>WORD</acceptance-pname>
      </config>
      <cir-frame-loss-ratio>CIR_RATIO</cir-frame-loss-ratio> <!-- operation="delete"-->
    </acceptance-profile>
  </acceptance-profiles>
</sat>
```

Command Syntax

```
cir frame-loss-ratio CIR_RATIO
```

Configure cir frame loss ratio policing

Specify cir frame loss ratio policing

Attribute Name: cir-frame-loss-ratio-policing

Attribute Type: string

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <acceptance-profiles>
    <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
        <acceptance-pname>WORD</acceptance-pname>
      </config>
      <cir-frame-loss-ratio-policing>CIR_RATIO_POLICING</cir-frame-loss-ratio-
policing> <!-- operation="delete"-->
    </acceptance-profile>
  </acceptance-profiles>
</sat>
```

Command Syntax

```
cir frame-loss-ratio-policing CIR_RATIO_POLICING
```

Configure cir frame delay variation range

Specify the cir frame delay variation range

Attribute Name: cir-frame-delay-variation-range

Attribute Type: uint16

Attribute Range: 1-10000

Attribute Name: cir-frame-delay-variation

Attribute Type: enum (ms|us|ns)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <acceptance-profiles>
    <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
        <acceptance-pname>WORD</acceptance-pname>
        <cir-frame-delay-variation>ms</cir-frame-delay-variation> <!--
operation="delete"-->
      </config>
      <cir-frame-delay-variation-range>1</cir-frame-delay-variation-range> <!--
operation="delete"-->
    </acceptance-profile>
  </acceptance-profiles>
</sat>
```

Command Syntax

```
cir frame-delay-variation (ms|us|ns) <1-10000>
```

Configure cir frame delay range

specify the cir frame delay variation range

Attribute Name: cir-frame-delay-range

Attribute Type: uint16

Attribute Range: 1-10000

Attribute Name: cir-frame-delay

Attribute Type: enum (ms|us|ns)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <acceptance-profiles>
    <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
        <acceptance-pname>WORD</acceptance-pname>
        <cir-frame-delay>ms</cir-frame-delay> <!-- operation="delete"-->
      </config>
```

```

    <cir-frame-delay-range>1</cir-frame-delay-range> <!-- operation="delete"-->
  </acceptance-profile>
</acceptance-profiles>
</sat>

```

Command Syntax

```
cir frame-delay (ms|us|ns) <1-10000>
```

Configure size pname

SAT frame size profile name

Attribute Name: size-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile> <!-- operation="delete"-->
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
    </frame-size-profile>
  </frame-size-profiles>
</sat>

```

Command Syntax

```
ethernet sat frame-size-profile NAME
```

Configure size h

Specify the size h frame size range between 64 to 9200

Attribute Name: size-h

Attribute Type: uint16

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
      <size-h>64</size-h> <!-- operation="delete"-->
    </frame-size-profile>
  </frame-size-profiles>

```

```
</sat>
```

Command Syntax

```
size-h <64-2000>
```

Configure frame-size-profile size-h

Specify the size h frame size range between 64 to 9200

Attribute Name: size-h

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
      <size-h>64</size-h> <!-- operation="delete"-->
    </frame-size-profile>
  </frame-size-profiles>
</sat>
```

Command Syntax

```
size-h <64-9200>
```

Configure size u

Specify the size u frame size range between 64 to 9200

Attribute Name: size-u

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
      <size-u>64</size-u> <!-- operation="delete"-->
    </frame-size-profile>
  </frame-size-profiles>
</sat>
```

Command Syntax

```
size-u <64-2000>
```

Configure frame-size-profile size-u

Specify the size u frame size range between 64 to 9200

Attribute Name: size-u

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
      <size-u>64</size-u> <!-- operation="delete"-->
    </frame-size-profile>
  </frame-size-profiles>
</sat>
```

Command Syntax

```
size-u <64-9200>
```

Configure size a

Specify the size a frame size as 64

Attribute Name: size-a

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
      </size-a><!-- operation="delete"-->
    </frame-size-profile>
  </frame-size-profiles>
</sat>
```

Command Syntax

```
size-a 64
```

Configure size b

Specify the size b frame size as 128

Attribute Name: size-b

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
    </size-b><!-- operation="delete"-->
  </frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-b 128
```

Configure size c

Specify the size c frame size as 256

Attribute Name: size-c

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
    </size-c><!-- operation="delete"-->
  </frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-c 256
```

Configure size d

Specify the size d frame size as 512

Attribute Name: size-d

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
    </size-d><!-- operation="delete"-->
  </frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-d 512
```

Configure size e

Specify the size e frame size as 1024

Attribute Name: size-e

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
      <config>
        <size-pname>WORD</size-pname>
      </config>
    </size-e><!-- operation="delete"-->
  </frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-e 1024
```

Configure size f

Specify the size f frame size as 1280

Attribute Name: size-f

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
```



```

    <size-pname>NAME</size-pname>
  </config>
  <size-pname>WORD</size-pname>
</config>
</size-f><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>

```

Command Syntax

```
size-f 1280
```

Configure size g

Specify the size g frame size as 1518

Attribute Name: size-g

Attribute Type: empty

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <frame-size-profiles>
    <frame-size-profile>
      <size-pname>NAME</size-pname>
    </config>
    <size-pname>WORD</size-pname>
  </config>
  </size-g><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>

```

Command Syntax

```
size-g 1518
```

Configure test name

SAT test

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test> <!-- operation="delete"-->
      <test-name>NAME</test-name>
    </config>
  </tests>
</sat>

```

```

        <test-name>WORD</test-name>
    </config>
</test>
</tests>
</sat>

```

Command Syntax

```
ethernet sat NAME
```

Configure description

Used to set the description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </test>
  </tests>
</sat>

```

Command Syntax

```
description LINE
```

Configure direction

Used to map the direction as upstream/downstream

Attribute Name: direction

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
      <direction>upstream</direction> <!-- operation="delete"-->
    </test>
  </tests>
</sat>

```

```

</test>
</tests>
</sat>

```

Command Syntax

direction (upstream|downstream)

Configure stream run

Used to set the stream run

Attribute Name: stream-run

Attribute Type: enum (parallel|one-by-one)

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
      <stream-run>parallel</stream-run> <!-- operation="delete"-->
    </test>
  </tests>
</sat>

```

Command Syntax

stream-run (parallel|one-by-one)

Configure test type

SAT test

Attribute Name: test-type

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    <service-tests>
      <service-test> <!-- operation="delete"-->
        <test-type>cir</test-type>
        <config>
          <test-type>cir</test-type>
        </config>
      </service-test>
    </service-tests>
  </tests>
</sat>

```

```

    </config>
  </service-test>
</service-tests>
</test>
</tests>
</sat>

```

Command Syntax

```
service-test (cir|cir-eir|policing|performance|all)
```

Configure seconds

Set the time in terms of seconds

Attribute Name: seconds

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
    <service-tests>
      <service-test>
        <test-type>cir</test-type>
        <config>
          <test-type>cir</test-type>
          </duration><!-- operation="delete"-->
        </config>
        <seconds>1</seconds> <!-- operation="delete"-->
      </service-test>
    </service-tests>
  </test>
</tests>
</sat>

```

Command Syntax

```
duration seconds <1-60>
```

Configure hours

Set the time in terms of hours

Attribute Name: hours

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: minutes

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    <service-tests>
      <service-test>
        <test-type>cir</test-type>
        <config>
          <test-type>cir</test-type>
          </duration><!-- operation="delete"-->
          <minutes>1</minutes> <!-- operation="delete"-->
          <seconds>1</seconds> <!-- operation="delete"-->
        </config>
        <hours>1</hours> <!-- operation="delete"-->
      </service-test>
    </service-tests>
  </test>
</tests>
</sat>
```

Command Syntax

duration hours <1-60> (minutes <1-60>|) (seconds <1-60>|)

Configure minutes

Set the time in terms of minutes

Attribute Name: minutes

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <service-tests>
    <service-test>
      <test-type>cir</test-type>
      <config>
        <test-type>cir</test-type>
        </duration><!-- operation="delete"-->
        <seconds>1</seconds> <!-- operation="delete"-->
      </config>
      <minutes>1</minutes> <!-- operation="delete"-->
    </service-test>
  </service-tests>
</sat>
```

Command Syntax

duration minutes <1-60> (seconds <1-60>|)

Configure stream name

SAT test

Attribute Name: stream-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream> <!-- operation="delete"-->
      <stream-name>NAME</stream-name>
    </stream>
  </streams>
</sat>
```

```

        <stream-name>WORD</stream-name>
    </config>
</stream>
</streams>
</test>
</tests>
</sat>

```

Command Syntax

```
service-stream NAME
```

Configure stream description

Used to set the description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </stream>
  </streams>
</sat>

```

Command Syntax

```
description LINE
```

Configure rate profile

Specify the rate profile

Attribute Name: rate-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
        <rate-profile>NAME</rate-profile> <!-- operation="delete"-->
      </config>
    </stream>
  </streams>
</sat>
```

Command Syntax

```
rate-profile NAME
```

Configure acceptance profile

Specify the acceptance profile name

Attribute Name: acceptance-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
        <acceptance-profile>NAME</acceptance-profile> <!-- operation="delete"-->
      </config>
    </stream>
  </streams>
</sat>
```



```

</streams>
</test>
</tests>
</sat>

```

Command Syntax

```
acceptance-profile NAME
```

Configure frame size profile

Specify the frame size profile name

Attribute Name: frame-size-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
  <test-name>NAME</test-name>
  <config>
    <test-name>WORD</test-name>
  </config>
</test>
</tests>
</sat>

```

Command Syntax

```
frame-size-profile NAME
```

Configure frame sequence

Specify the frame sequence

Attribute Name: frame-sequence

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
      </config>
      <frame-sequence>SEQUENCE</frame-sequence> <!-- operation="delete"-->
    </stream>
  </streams>
</sat>

```

Command Syntax

```
frame-sequence SEQUENCE
```

Configure frame data pattern

Specify the frame data pattern

Attribute Name: frame-data-pattern

Attribute Type: enum (null-sig|prbs)

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
      </config>
      <frame-data-pattern>null-sig</frame-data-pattern> <!-- operation="delete"-->
    </stream>
  </streams>
</sat>

```

```
</sat>
```

Command Syntax

```
frame-data-pattern (null-sig|prbs)
```

Configure frame delay disable

Use this attribute to disable frame delay

Attribute Name: frame-delay-disable

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
  <test-name>NAME</test-name>
  <config>
    <test-name>WORD</test-name>
  </config>
</test>
</tests>
<streams>
<stream>
  <stream-name>NAME</stream-name>
  <config>
    <stream-name>WORD</stream-name>
  </config>
  </frame-delay-disable><!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
frame-delay-disable
```

Configure tag type

This attribute is used to configure the tag type (dot1q|dot1ad).

Attribute Name: tag-type

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
  <test-name>NAME</test-name>
  <config>
    <test-name>WORD</test-name>
  </config>
</test>
</tests>
<streams>
<stream>
  <stream-name>NAME</stream-name>
  <config>
    <stream-name>WORD</stream-name>
  </config>
  <frame-payload>
  <config>
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <tag-type>dot1q</tag-type> <!-- operation="delete"-->
  </config>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>

```

Command Syntax

```
tag (dot1q|dot1ad) <1-4094> (inner-dot1q <1-4094>|)
```

Configure frame payload

Specify frame payload

Attribute Name: frame-payload

Attribute Type: empty

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
  <test-name>NAME</test-name>
  <config>
    <test-name>WORD</test-name>
  </config>
</test>
</tests>
<streams>
<stream>
  <stream-name>NAME</stream-name>
  <config>
    <stream-name>WORD</stream-name>
  </config>
</stream>
</streams>
</test>
</tests>
</sat>

```

```

    </config>
  <frame-payload>
    <config>
      </frame-payload>
    </config>
  </frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>

```

Command Syntax

```
frame-payload
```

Configure dst mac

Specify the destination MAC address

Attribute Name: dst-mac

Attribute Type: string

Netconf edit-config payload

```

<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
      </config>
      <frame-payload>
        <config>
          <dst-mac>XXXX.XXXX.XXXX</dst-mac> <!-- operation="delete"-->
        </config>
      </frame-payload>
    </stream>
  </streams>
</sat>

```

Command Syntax

```
dst-mac XXXX.XXXX.XXXX
```

Configure source interface

Specify the source interface name

Attribute Name: source-interface

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <tests>
    <test>
      <test-name>NAME</test-name>
      <config>
        <test-name>WORD</test-name>
      </config>
    </test>
  </tests>
  <streams>
    <stream>
      <stream-name>NAME</stream-name>
      <config>
        <stream-name>WORD</stream-name>
      </config>
      <frame-payload>
        <config>
          <source-interface>NAME</source-interface> <!-- operation="delete"-->
        </config>
      </frame-payload>
    </stream>
  </streams>
</sat>
```

Command Syntax

```
source-interface NAME
```

Configure domain name

Specify the CFM domain name

Attribute Name: domain-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
  <test-name>NAME</test-name>
  <config>
    <test-name>WORD</test-name>
  </config>
</test>
</tests>
<streams>
<stream>
  <stream-name>NAME</stream-name>
  <config>
    <stream-name>WORD</stream-name>
  </config>
  <frame-payload>
    <cfm>
      <config>
        <ma-name>NAME</ma-name>
        <mep-id>1</mep-id>
        <domain-name>NAME</domain-name>
      </config>
    </cfm>
  </frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
cfm domain NAME ma NAME mepid <1-8191>
```

Configure data loopback

Use this attribute to set the ethernet data loopback for upstream/downstream

Attribute Name: data-loopback

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <data-loopback>upstream</data-loopback> <!-- operation="delete"-->
</interface>
</interfaces>
</sat>
```

```

</interface>
</interfaces>
</sat>

```

Command Syntax

```
ethernet data-loopback (upstream|downstream)
```

sat start NAME ((cir|cir-eir|policing|performance|all|)) (service-stream NAME|) ((repeat-last-fail-test|new-test|))

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Attribute Name: repeat-last-fail-test

Attribute Type: enum (repeat-last-fail-test|new-test)

Default Value: new-test

Netconf RPC payload

```

<service-activation-test-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
  <test-name>NAME</test-name>
  <sat-unit>all</sat-unit>
  <service-stream>NAME</service-stream>
  <repeat-last-fail-test>new-test</repeat-last-fail-test>
</service-activation-test-start>

```

Command Syntax

```

sat start NAME ((cir|cir-eir|policing|performance|all|)) (service-stream NAME|)
((repeat-last-fail-test|new-test|))

```

sat abort NAME ((cir|cir-eir|policing|performance|all|)) (service-stream NAME|)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Netconf RPC payload

```
<service-activation-test-abort xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
  <test-name>NAME</test-name>
  <sat-unit>all</sat-unit>
  <service-stream>NAME</service-stream>
</service-activation-test-abort>
```

Command Syntax

```
sat abort NAME ((cir|cir-eir|policing|performance|all)) (service-stream NAME|)
```

sat clear NAME ((cir|cir-eir|policing|performance|all)) (service-stream NAME|)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: 255

Attribute Range: 1-32

Netconf RPC payload

```
<service-activation-test-clear xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
  <test-name>NAME</test-name>
  <sat-unit>all</sat-unit>
  <service-stream>NAME</service-stream>
</service-activation-test-clear>
```

Command Syntax

```
sat clear NAME ((cir|cir-eir|policing|performance|all)) (service-stream NAME|)
```

data-loopback start interface IFNAME timeout minutes <0-1440>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: timeout

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-1440

Netconf RPC payload

```
<data-loopback-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <interface-name>IFNAME</interface-name>
  <timeout>0</timeout>
</data-loopback-start>
```

Command Syntax

```
data-loopback start interface IFNAME timeout minutes <0-1440>
```

data-loopback abort interface IFNAME timeout minutes <0-1440>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: timeout

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-1440

Netconf RPC payload

```
<data-loopback-abort xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
  <interface-name>IFNAME</interface-name>
  <timeout>0</timeout>
</data-loopback-abort>
```

Command Syntax

```
data-loopback abort interface IFNAME timeout minutes <0-1440>
```

IPI-EDPL

Configure name

EDPL profile name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile> <!-- operation="delete"-->
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </profile>
  </profiles>
</edpl>
```

Command Syntax

```
edpl profile NAME
```

Configure direction

Used to map the direction as upstream/downstream

Attribute Name: direction

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <direction>upstream</direction> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>
```

Command Syntax

```
direction (upstream|downstream)
```

Configure dst mac

Specify the destination MAC address

Attribute Name: dst-mac

Attribute Type: string

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <dst-mac>XXXX.XXXX.XXXX</dst-mac> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>
```

Command Syntax

```
destination-mac XXXX.XXXX.XXXX
```

Configure vlan id

Specify the VLAN Identifier

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 0-4095

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <vlan-id>0</vlan-id> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>
```

Command Syntax

```
vlan <0-4095>
```

Configure ip swap

Enable ip swap

Attribute Name: ip-swap

Attribute Type: empty

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
```

```

<profiles>
  <profile>
    <name>NAME</name>
    <config>
      <name>WORD</name>
    </config>
    </ip-swap><!-- operation="delete"-->
  </profile>
</profiles>
</edpl>

```

Command Syntax

```
ip-swap
```

Configure udp tcp port swap

Enable UDP/TCP port swap

Attribute Name: udp-tcp-port-swap

Attribute Type: empty

Netconf edit-config payload

```

<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      </udp-tcp-port-swap><!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>

```

Command Syntax

```
udp-tcp-port-swap
```

Configure source udp port

Specify the source udp port

Attribute Name: source-udp-port

Attribute Type: uint16

Netconf edit-config payload

```

<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>

```

```
    <name>WORD</name>
  </config>
  <source-udp-port>0</source-udp-port>
</profile>
</profiles>
</edpl>
```

Command Syntax

```
source-udp-port <0-65535>
```

Configure destination udp port

Specify the destination udp port

Attribute Name: destination-udp-port

Attribute Type: uint16

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <destination-udp-port>0</destination-udp-port>
    </profile>
  </profiles>
</edpl>
```

Command Syntax

```
destination-udp-port <0-65535>
```

Configure ethertype

Use this attribute to classify traffic based on the EtherType value

Attribute Name: ethertype

Attribute Type: string

Attribute Range: 5-6

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </profile>
  </profiles>
</edpl>
```

```

    <ethertype>WORD</ethertype> <!-- operation="delete"-->
  </profile>
</profiles>
</edpl>

```

Command Syntax

```
ethertype WORD
```

Configure address family

Use this attribute to specify address-family

Attribute Name: address-family

Attribute Type: enum (l2|ipv4|ipv6)

Netconf edit-config payload

```

<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <address-family>l2</address-family> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>

```

Command Syntax

```
address-family (l2|ipv4|ipv6)
```

Configure src ip

Specify the source ip address

Attribute Name: src-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```

<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <src-ip>A.B.C.D/X:X::X:X</src-ip> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>

```

Command Syntax

source-ip-address A.B.C.D/X:X::X:X

Configure dst ip

Specify the destination ip address

Attribute Name: dst-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <profiles>
    <profile>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <dst-ip>A.B.C.D/X:X::X:X</dst-ip> <!-- operation="delete"-->
    </profile>
  </profiles>
</edpl>
```

Command Syntax

destination-ip-address A.B.C.D/X:X::X:X

Configure tests name

Specifies EDPL test name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test> <!-- operation="delete"-->
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </test>
  </tests>
</edpl>
```

Command Syntax

edpl test NAME

Configure source port

Specify the source port name

Attribute Name: source-port

Attribute Type: string

Attribute Range: 1-32

Attribute Name: l2-port

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <l2-port>NAME</l2-port> <!-- operation="delete"-->
      </config>
      <source-port>NAME</source-port> <!-- operation="delete"-->
    </test>
  </tests>
</edpl>
```

Command Syntax

```
source-port NAME (l2-port NAME|)
```

Configure profile

Specify the EDPL profile filter name

Attribute Name: profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <profile>NAME</profile> <!-- operation="delete"-->
    </test>
  </tests>
</edpl>
```

Command Syntax

```
edpl-profile NAME
```

Configure hours

Set the test time in terms of hours

Attribute Name: hours

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: minutes

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </test>
  </tests>
</edpl>
```

Command Syntax

```
duration hours <1-60> (minutes <1-60>|) (seconds <1-60>|)
```

Configure minutes

Set the test time in terms of minutes

Attribute Name: minutes

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    <timer>
      <config>
        </duration><!-- operation="delete"-->
        <seconds>1</seconds> <!-- operation="delete"-->
        <minutes>1</minutes> <!-- operation="delete"-->
      </config>
    </timer>
  </test>
</tests>
</edpl>
```

Command Syntax

```
duration minutes <1-60> (seconds <1-60>|)
```

Configure seconds

Set the test time in terms of seconds

Attribute Name: seconds

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <tests>
    <test>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    <timer>
      <config>
        </duration><!-- operation="delete"-->
```

```

        <seconds>1</seconds> <!-- operation="delete"-->
</config>
</timer>
</test>
</tests>
</edpl>

```

Command Syntax

```
duration seconds <1-60>
```

edpl (start|stop) NAME

Attribute Name: edpl-action

Attribute Type: enum (start|stop)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Netconf RPC payload

```

<edpl-test-execute xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
  <edpl-action>start</edpl-action>
  <test-name>NAME</test-name>
</edpl-test-execute>

```

Command Syntax

```
edpl (start|stop) NAME
```

IPI-MANAGEMENT-SERVER-NOTIFICATION

Configure severity

If notification enabled, all the notifications having severity higher than or equal to this severity allowed. If notification disabled, all the notifications having severity lower than or equal to this severity not allowed

Attribute Name: severity

Attribute Type: enum (all|info|warning|minor|major|critical)

Default Value: all

Attribute Name: enable

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<management-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-
server">
  <module-notifications>
  <module-notification>

```

```

    <module-name>auth</module-name>
  <config>
    <module-name>auth</module-name>
    <enable>enable</enable>
  </config>
  <severity>all</severity>
</module-notification>
</module-notifications>
</management-server>

```

Command Syntax

```

module
  (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrrib|nsm|onm|oam|ospf|ospf6|ptp
  |rip|pim|rib|vrrp|sflow|rsrv|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
notification (disable|enable) (severity (all|info|warning|minor|major|critical))

```

IPI-VRF

Configure instance name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>vrf</instance-type>
    <config>
      <instance-type>vrf</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </vrf>
</config>
  <vrf-name>WORD</vrf-name>
</config>
</vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
ip vrf WORD
```

Configure instance type

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>mac-vrf</instance-type>
    <config>
      <instance-type>mac-vrf</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>
```

Command Syntax

```
mac vrf WORD
```

Configure description

VRF-specific description

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
```

```

        <instance-name>WORD</instance-name>
        <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <config>
        <description>LINE</description> <!-- operation="delete"-->
    </config>
    </vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
description LINE
```

Configure tunnel select policy

tunnel policy to be configured

Attribute Name: tunnel-select-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <config>
      <tunnel-select-policy>NAME</tunnel-select-policy> <!--
operation="delete"-->
    </config>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
tunnel-select-policy NAME
```

Configure lsp encap dscp preserve

Enable or disable dscp preserve on the VRF

Attribute Name: lsp-encap-dscp-preserve

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
        <lsp-encap-dscp-preserve>enable</lsp-encap-dscp-preserve> <!--
operation="delete"-->
      </config>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls lsp-encap-dscp-preserve (enable|disable)
```

Configure router id

VRF Router ID

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
        <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
      </config>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
router-id A.B.C.D
```

Configure evpn layer3 network id

L3 EVPN Identifier

Attribute Name: evpn-layer3-network-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
        <evpn-layer3-network-id>1</evpn-layer3-network-id> <!--
operation="delete"-->
      </config>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
l3vni <1-16777215>
```

Configure mtu

This attribute is used to configure the MTU on VRF

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
```

```

        <mtu>64</mtu> <!-- operation="delete"-->
    </config>
</vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
mtu <64-65535>
```

Configure snmp context name

Use this attribute to set the SNMP context for VRF.

This command is supported when following feature are enabled SNMP feature

Attribute Name: snmp-context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <snmp>
        <config>
          <snmp-context-name>WORD</snmp-context-name> <!-- operation="delete"-->
        </config>
      </snmp>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
snmp context-name WORD
```

clear router-id

Netconf RPC payload

```
<clear-default-router-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf"/>
```

Command Syntax

```
clear router-id
```

clear router-id vrf (VRFNAME|)

Attribute Name: vrfName

Attribute Type: string

Netconf RPC payload

```
<clear-vrf-router-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
  <vrfName>VRFNAME</vrfName>
</clear-vrf-router-id>
```

Command Syntax

```
clear router-id vrf (VRFNAME|)
```

IPI-INTERFACE

Configure name

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-49

Attribute Name: enable-switchport

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface> <!-- operation="delete"-->
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
      </enable-switchport>
    </config>
  </interface>
</interfaces>
```

Command Syntax

```
interface IFNAME (switchport|)
```

Configure enable switchport

This attribute is used to set the mode of the Hybrid Switch Router feature to switched only. All interfaces are configured routed by default

Attribute Name: enable-switchport

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    </enable-switchport><!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
switchport
```

Configure vrf name

This attribute is used to associates an interface with a VRF

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
ip vrf forwarding WORD
```

Configure vr name

This attribute is used to associates an interface with a VR

Attribute Name: vr-name

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <vr-name>WORD</vr-name> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
virtual-router forwarding WORD
```

Configure mtu

This attribute is used to set mtu value to interface. The size of the largest packet which can be sent/received on the interface, specified in octets. For interfaces that are used for transmitting network datagrams, this is the size of the largest network datagram that can be sent on the interface.

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <mtu>64</mtu> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
mtu <64-65535>
```

Configure dot1ad ether type

This attribute is used to configure the ethertype value for the interface in the format 0xhhhh. Currently supported values are 0x8100 (default) or 0x88a8 or 0x9100 or 0x9200.

Attribute Name: dot1ad-ether-type

Attribute Type: string

Attribute Range: 6-6

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```

<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <dot1ad-ether-type>ETHERTYPE</dot1ad-ether-type> <!-- operation="delete"-->
</interface>
</interfaces>

```

Command Syntax

```
dot1ad ethertype ETHERTYPE
```

Configure domain fastflush config

Attribute to change domain fastflush value

Attribute Name: domain-fastflush-config

Attribute Type: empty

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  </domain-fastflush-config><!-- operation="delete"-->
</interface>
</interfaces>

```

Command Syntax

```
switchport fastflush
```

Configure bridge domain forward

Attribute to change domain forward value

Attribute Name: bridge-domain-forward

Attribute Type: empty

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  </bridge-domain-forward><!-- operation="delete"-->
</interface>
</interfaces>

```

Command Syntax

```
bridge-domain forward
```

Configure phy link training

This attribute is used to enable port link training

Attribute Name: phy-link-training

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <phy-link-training>disable</phy-link-training> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
phy link-training (disable|enable)
```

Configure phy dfe

This attribute is used to enable port decision feedback equalizer(dfe)

Attribute Name: phy-dfe

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <phy-dfe>disable</phy-dfe> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
phy dfe (disable|enable)
```

Configure phy unreliable los

This attribute is used to enable port unreliable loss of signal(los)

Attribute Name: phy-unreliable-los

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <phy-unreliable-los>disable</phy-unreliable-los> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
phy unreliable-los (disable|enable)
```

Configure description

Use this attribute to set description for the interface

Attribute Name: description

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <description>1</description> <!-- operation="delete"-->
  </interface>
</interfaces>
```

Command Syntax

```
description LINE
```

Configure shutdown

Use this attribute to enable the selected interface. This leaf contains the configured, desired state of the interface. The testing(3) state indicates that no operational packets can be passed. When a managed system initializes, all interfaces start with ifAdminStatus in the down(2) state. As a result of either explicit management action or per configuration information retained by the managed system, ifAdminStatus is then changed to either the up(1) or testing(3) states (or remains in the down(2) state).

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  </shutdown><!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

shutdown

Configure if loopback

This attribute is used to enable port loopback

Attribute Name: if-loopback

Attribute Type: enum (tx|rx)

Attribute Name: if-loopback-level

Attribute Type: enum (mac|phy)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<interface-loopback>
<config>
  <if-loopback-level>mac</if-loopback-level>
  <if-loopback>tx</if-loopback>
</config>
</interface-loopback>
</interface>
</interfaces>
```

Command Syntax

loopback (tx|rx) (mac|phy)

clear interface (IFNAME|) counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<clear-interface-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
interface">
  <name>IFNAME</name>
</clear-interface-counters>
```

Command Syntax

```
clear interface (IFNAME|) counters
```

IPI-GLOBAL-TE

Configure id

identifier value for the administrative group

Attribute Name: id

Attribute Type: uint8

Attribute Range: 0-31

Netconf edit-config payload

```
<admin-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
<admin-group> <!-- operation="delete"-->
  <id>0</id>
  <config>
    <id>0</id>
    <name>NAME</name>
  </config>
  <name>NAME</name>
</admin-group>
</admin-groups>
```

Command Syntax

```
admin-group NAME <0-31>
```

Configure name

identifier value for the extended administrative group

Attribute Name: id

Attribute Type: uint32

Attribute Range: 32-95

Netconf edit-config payload

```
<extended-admin-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
<extended-admin-group> <!-- operation="delete"-->
  <id>32</id>
  <config>
```

```

    <id>32</id>
    <name>NAME</name>
  </config>
  <name>NAME</name>
</extended-admin-group>
</extended-admin-groups>

```

Command Syntax

```
extended-admin-group NAME <32-95>
```

Configure srlg-maps id

identifier value for the SRLG map

Attribute Name: id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<srlg-maps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
  <srlg-map> <!-- operation="delete"-->
    <id>1</id>
    <config>
      <id>1</id>
      <name>NAME</name>
    </config>
    <name>NAME</name>
  </srlg-map>
</srlg-maps>

```

Command Syntax

```
srlg-map NAME <1-65535>
```

IPI-IF-ETHERNET

Configure duplex mode

Use this attribute to set the duplex mode for the interface. Auto-negotiation if enabled, is turned off when duplex mode is set for the interface. When auto-negotiation is enabled, the interface should negotiate the duplex mode directly (typically full-duplex).

Attribute Name: duplex-mode

Attribute Type: enum (half|full)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>

```

```

<config>
  <name>IFNAME</name>
</config>
<ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
  <config>
    <duplex-mode>half</duplex-mode> <!-- operation="delete"-->
  </config>
</ethernet>
</interface>
</interfaces>

```

Command Syntax

```
duplex {half|full}
```

Configure secondary mac address

Use this attribute to set the secondary mac address for an interface to terminate L3 packets.

Attribute Name: secondary-mac-address

Attribute Type: empty

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <config>
        </secondary-mac-address><!-- operation="delete"-->
      </config>
    </ethernet>
  </interface>
</interfaces>

```

Command Syntax

```
mac-address secondary peer-mlag
```

Configure port speed

This attribute is used to set the link speed for the interface. To enable auto-negotiation for the interface, set this attribute to value auto. When auto-negotiation is enabled, it is expected that the interface will select the highest speed available based on negotiation. When auto-negotiation is not enabled, sets the link speed to a fixed value -- supported values are defined by IF_INTERFACE_SPEED_T enum. When limited auto-negotiation is required, select the speed after the auto option. With this only the specified speed will be advertised and interface will negotiate with peer with that speed only.

Attribute Name: port-speed

Attribute Type: enum (10m|100m|1g|2.5g|10g|20g|25g|40g|50g|100g|200g|400g|auto|auto 10m|auto 100m|auto 1g)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
    <config>
      <port-speed>10m</port-speed> <!-- operation="delete"-->
    </config>
  </ethernet>
</interface>
</interfaces>
```

Command Syntax

```
speed (10m|100m|1g|2.5g|10g|20g|25g|40g|50g|100g|200g|400g|auto|auto 10m|auto
100m|auto 1g)
```

Configure enable rcv

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled L2 feature

Attribute Name: name

Attribute Type: string

Attribute Name: enable-rcv

Attribute Type: enum (off|on)

Attribute Name: enable-snd

Attribute Type: enum (off|on)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<ethernet>
<flow-control>
<config>
  <enable-rcv>off</enable-rcv>
```

```
        <enable-snd>off</enable-snd>
    </config>
</flow-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
flowcontrol both
```

Configure enable rcv

This attribute is used to show flow control on receive

This command is supported when following feature are enabled L2 feature

Attribute Name: enable-rcv

Attribute Type: enum (off|on)

Default Value: off

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <flow-control>
        <config>
          <enable-rcv>off</enable-rcv> <!-- operation="delete"-->
        </config>
      </flow-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
flowcontrol receive (off|on)
```

Configure enable snd

This attribute is used to show flow control on send

This command is supported when following feature are enabled L2 feature

Attribute Name: enable-snd

Attribute Type: enum (off|on)

Default Value: off

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
    <flow-control>
      <config>
        <enable-snd>off</enable-snd> <!-- operation="delete"-->
      </config>
    </flow-control>
  </ethernet>
</interface>
</interfaces>

```

Command Syntax

```
flowcontrol send (off|on)
```

IPI-IF-IP

Configure primary ip addr

Use this attribute to specify that an IP address and prefix length will be used by this interface. If the secondary parameter is not specified, this attribute overwrites the primary IP address. If the secondary parameter is specified, this attribute adds a new IP address to the interface. The secondary address cannot be configured in the absence of a primary IP address. The primary address cannot be removed when a secondary address is present.

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
    <config>
      <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
    </config>
  </ipv4>
</interface>
</interfaces>

```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure enable dhcp ip address

Use this attribute to specify that a DHCP client will be used to obtain an IP address for an interface.

Attribute Name: enable-dhcp-ip-address

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        </enable-dhcp-ip-address><!-- operation="delete"-->
      </config>
    </ipv4>
  </interface>
</interfaces>
```

Command Syntax

```
ip address dhcp
```

Configure ip addr label

Label of this address.

Attribute Name: ip-addr-label

Attribute Type: string

Default Value: NULL

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
```



```

        <ip-addr-label>LINE</ip-addr-label> <!-- operation="delete"-->
    </config>
</ipv4>
</interface>
</interfaces>

```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) label LINE
```

Configure ipv4 unnumbered if name

This attribute is used to Enable IP processing without an explicit address

Attribute Name: ipv4-unnumbered-if-name

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <ipv4-unnumbered-if-name>IFNAME</ipv4-unnumbered-if-name> <!--
operation="delete"-->
      </config>
    </ipv4>
  </interface>
</interfaces>

```

Command Syntax

```
ip unnumbered IFNAME
```

Configure remote address

This attribute is used to set the remote address of the PPP link

Attribute Name: remote-address

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">

```

```

    <config>
      <remote-address>A.B.C.D/M</remote-address> <!-- operation="delete"-->
    </config>
  </ipv4>
</interface>
</interfaces>

```

Command Syntax

```
ip remote-address A.B.C.D/M
```

Configure primary anycast

Use this attribute to set the anycast flag for the IPv4 primary address of an interface.

Attribute Name: primary-anycast

Attribute Type: empty

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
        </primary-anycast><!-- operation="delete"-->
      </config>
    </ipv4>
  </interface>
</interfaces>

```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) anycast
```

Configure ip address

Use this attribute to specify a secondary IP address that will be used by this interface. The secondary address cannot be configured in the absence of a primary IP address. The primary address cannot be removed when a secondary address is present.

Attribute Name: ip-address

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
    <secondary-addresses> <!-- operation="delete"-->
      <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
      <config>
        <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
      </config>
    </secondary-addresses>
  </ipv4>
</interface>
</interfaces>

```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary
```

Configure ip label

Use this attribute to specify a descriptive label for this IPv4 address.

Attribute Name: ip-label

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
    <secondary-addresses>
      <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
      <config>
        <ip-address>A.B.C.D/M</ip-address>
        <ip-label>LINE</ip-label> <!-- operation="delete"-->
      </config>
    </secondary-addresses>
  </ipv4>
</interface>
</interfaces>

```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary label LINE
```

Configure secondary anycast

Use this attribute to set the anycast flag for the IPv4 secondary address of an interface.

Attribute Name: secondary-anycast

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <secondary-addresses>
        <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
        <config>
          <ip-address>A.B.C.D/M</ip-address>
        </config>
        </secondary-anycast><!-- operation="delete"-->
      </secondary-addresses>
    </ipv4>
  </interface>
</interfaces>
```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary anycast
```

Configure enable auto config

Use this attribute to enable autoconfiguration of IPv6 address in host interface. IPv6 address are formed using the Prefix learned from RA and suffix formed using EUI-64 method.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-auto-config

Attribute Type: boolean

Attribute Name: max-autoconfig-address

Attribute Type: uint8

Attribute Range: 1-64

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
```

```

    <config>
      <name>IFNAME</name>
    </config>
    <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <max-autoconfig-address>1</max-autoconfig-address> <!--
operation="delete"-->
        <enable-auto-config>true</enable-auto-config> <!-- operation="delete"-->
      </config>
    </ipv6>
  </interface>
</interfaces>

```

Command Syntax

```
ipv6 address autoconfig (max-address <1-64>|)
```

Configure ipv6 unnumbered if name

Use this attribute to enable IP processing without an explicit address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-unnumbered-if-name

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <ipv6-unnumbered-if-name>IFNAME</ipv6-unnumbered-if-name> <!--
operation="delete"-->
      </config>
    </ipv6>
  </interface>
</interfaces>

```

Command Syntax

```
ipv6 unnumbered IFNAME
```

Configure enable dhcp ipv6 address

Use this attribute to specify that a DHCP client will be used to obtain an IP address for an interface.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-dhcp-ipv6-address

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
    <config>
      </enable-dhcp-ipv6-address><!-- operation="delete"-->
    </config>
  </ipv6>
</interface>
</interfaces>
```

Command Syntax

```
ipv6 address dhcp
```

Configure enable dhcp temporary ipv6 address

Use this attribute to specify that a DHCP client will be used to obtain an temporary IP address for an interface.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-dhcp-temporary-ipv6-address

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
    <config>
      </enable-dhcp-temporary-ipv6-address><!-- operation="delete"-->
    </config>
  </ipv6>
</interface>
</interfaces>
```

Command Syntax

```
ipv6 address dhcp temporary
```

Configure dhcp address prefix length

Use this attribute to configure the prefix length for the dynamically learnt ipv6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcp-address-prefix-length

Attribute Type: uint8

Attribute Range: 1-128

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
        <dhcp-address-prefix-length>1</dhcp-address-prefix-length> <!--
operation="delete"-->
      </config>
    </ipv6>
  </interface>
</interfaces>
```

Command Syntax

```
ipv6 dhcp address-prefix-length <1-128>
```

Configure ipv6 address

Use this attribute to set the IPv6 address of an interface

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <addresses> <!-- operation="delete"-->
        <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
        <ipv6-address>X:X::X:X/M</ipv6-address>
      </config>
    </addresses>
  </ipv6>
</interface>
</interfaces>
```

Command Syntax

```
ipv6 address X:X::X:X/M
```

Configure anycast

Use this attribute to set the anycast flag for the IPv6 address of an interface. Anycast flag cannot be deleted for an IPv6 address once set. Please delete IPv6 address and reconfigure to remove anycast property.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: anycast

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <addresses>
        <ipv6-address>X:X::X:X/M</ipv6-address>
        <config>
          <ipv6-address>X:X::X:X/M</ipv6-address>
          </config>
          </anycast><!-- operation="delete"-->
        </addresses>
      </ipv6>
    </interface>
  </interfaces>
```

Command Syntax

```
ipv6 address X:X::X:X/M anycast
```

Configure disable ip forwarding

Enable IP forwarding for the router

Attribute Name: disable-ip-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <config>
    </disable-ip-forwarding><!-- operation="delete"-->
  </config>
</ip-global>
```

Command Syntax

```
no ip forwarding
```

Configure disable ipv6 forwarding

Enable IPv6 forwarding for the router

Attribute Name: disable-ipv6-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <config>
    </disable-ipv6-forwarding><!-- operation="delete"-->
  </config>
</ip-global>
```

Command Syntax

```
no ipv6 forwarding
```

Configure router id

Router id of the router - an unsigned 32-bit integer expressed in dotted quad notation

Attribute Name: router-id

Attribute Type: string

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <config>
    <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
  </config>
</ip-global>
```

Command Syntax

```
router-id A.B.C.D
```

Configure enable auto router id selection

Turn on Automatic Selection of Router ID

Attribute Name: enable-auto-router-id-selection

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <config>
    </enable-auto-router-id-selection><!-- operation="delete"-->
  </config>
```

```
</ip-global>
```

Command Syntax

```
automatic-router-id-selection enable
```

Configure default vrf enable icmp broadcast

This attribute is used to control ICMP echo broadcast reply. It ignores ICMP echo broadcast when set to true

Attribute Name: default-vrf-enable-icmp-broadcast

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <config>
    </default-vrf-enable-icmp-broadcast><!-- operation="delete"-->
  </config>
</ip-global>
```

Command Syntax

```
ip icmp-broadcast
```

Configure disable ip vrf forwarding

Turn on IP forwarding for the VRF instance

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-ip-vrf-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <vrf>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
      </config>
      </disable-ip-vrf-forwarding><!-- operation="delete"-->
    </vrf>
  </ip-global>
```

Command Syntax

```
no ip forwarding vrf NAME
```

Configure disable ipv6 vrf forwarding

Turn on IPv6 forwarding for the VRF instance

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-ipv6-vrf-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <vrf>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
  </disable-ipv6-vrf-forwarding><!-- operation="delete"-->
</vrf>
</ip-global>
```

Command Syntax

```
no ipv6 forwarding vrf NAME
```

Configure enable icmp broadcast

This attribute is used to control ICMP echo broadcast reply for VRF instance. It ignores ICMP echo broadcast when set to true

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: enable-icmp-broadcast

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
  <vrf>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
  </enable-icmp-broadcast><!-- operation="delete"-->
</vrf>
</ip-global>
```

Command Syntax

```
ip icmp-broadcast vrf NAME
```

IPI-IF-EXTENDED

Configure group index

This attribute specifies the port group number

This command is supported when following feature are enabled dune feature,hal feature and following feature are disabled swfwdr feature

Attribute Name: group-index

Attribute Type: uint8

Attribute Range: 1-64

Attribute Name: group-speed

Attribute Type: enum (1g|10g|25g|40g|50g|100g)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <port-group-speed-map> <!-- operation="delete"-->
    <group-index>1</group-index>
    <config>
      <group-index>1</group-index>
      <group-speed>1g</group-speed>
    </config>
  </port-group-speed-map>
</interfaces>
```

Command Syntax

```
port-group <1-64> speed (1g|10g|25g|40g|50g|100g)
```

Configure protected port

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <protected-port>promiscuous</protected-port>
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
switchport protected (isolated|promiscuous)
```

Configure name

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <protected-port>promiscuous</protected-port>
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
switchport protected (community|isolated|promiscuous)
```

Configure extended protected-port

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <protected-port>promiscuous</protected-port>
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
switchport protected (community|promiscuous)
```

Configure link flap error disable

This object specifies whether the interface is enabled for link-flap error-disable or not. If this is '0', then interface is not enabled. Otherwise it is enabled.

Attribute Name: link-flap-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </link-flap-error-disable><!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
no link-flap errdisable
```

Configure storm control error disable

This attribute specifies whether the interface is enabled for storm-control error-disable or not. If this is not set, then the interface is not enabled. Otherwise it is enabled.

Attribute Name: storm-control-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </storm-control-error-disable><!-- operation="delete"-->
      </config>
    </extended>
  </interface>
```

```
</interfaces>
```

Command Syntax

```
no storm-control errdisable
```

Configure mac move limit error disable

This object specifies whether the interface is enabled for mac-move-limit error-disable or not. If this is '0', then interface is not enabled. Otherwise it is enabled.

Attribute Name: mac-move-limit-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </mac-move-limit-error-disable><!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
no mac-move-limit errdisable
```

Configure disable snmp trap link status

This Object is used to set the snmp trap link status in an interface

Attribute Name: disable-snmp-trap-link-status

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </disable-snmp-trap-link-status><!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>
```

```
</interface>
</interfaces>
```

Command Syntax

```
no snmp trap link-status
```

Configure mac move priority

This object used to set the priority of mac-move of an interface

Attribute Name: mac-move-priority

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <mac-move-priority>1</mac-move-priority> <!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
mac-move-limit priority <1-255>
```

Configure mau default type

This attribute is used to set the mau type in an interface

Attribute Name: mau-default-type

Attribute Type: enum

(dot3MauType10BaseTHD|dot3MauType10BaseTFD|dot3MauType100BaseTXHD|dot3MauType100BaseTXFD|dot3MauType1000BaseXHD|dot3MauType1000BaseXFD|dot3MauType10GigBaseCX4|dot3MauType10GbaseKX4|dot3MauType10GbaseKR|dot3MauType40GbaseCR4)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
```



```

    <config>
      <mau-default-type>dot3MauType10BaseTHD</mau-default-type> <!--
operation="delete"-->
    </config>
  </extended>
</interface>
</interfaces>

```

Command Syntax

```

mau-default-type
(dot3MauType10BaseTHD|dot3MauType10BaseTFD|dot3MauType100BaseTXHD|dot3MauType100
BaseTXFD|dot3MauType1000BaseXHD|dot3MauType1000BaseXFD|dot3MauType10GigBaseCX4|d
ot3MauType10GbaseKX4|dot3MauType10GbaseKR|dot3MauType40GbaseCR4)

```

Configure debounce time

Use this attribute to set the interface debounce timer value

Attribute Name: debounce-time

Attribute Type: uint16

Attribute Range: 0-5000

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <debounce-time>0</debounce-time> <!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>

```

Command Syntax

```

debounce-time <0-5000>

```

Configure raon aodu port

To enable RAON AODU connectivity over physical port.

Attribute Name: raon-aodu-port

Attribute Type: enum (enable)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>

```

```

    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <raon-aodu-port>enable</raon-aodu-port> <!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>

```

Command Syntax

```
raon (enable)
```

Configure ucmp port

To enable UCMP support.

Attribute Name: ucmp-port

Attribute Type: enum (enable)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <ucmp-port>enable</ucmp-port> <!-- operation="delete"-->
      </config>
    </extended>
  </interface>
</interfaces>

```

Command Syntax

```
ucmp (enable)
```

Configure revertive timer

Use this attribute to set the timer for MC-LAG switchover revertive ty. Default switchover type is revertive 10s.

Attribute Name: revertive-timer

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
      <revertive-timer>1</revertive-timer> <!-- operation="delete"-->
    </config>
  </extended>
</interface>
</interfaces>
```

Command Syntax

```
raon ip-switchover type revertive <1-255>
```

Configure enable non revertive

Use this attribute to set the MC-LAG switchover to non-revertive type. Do not switch back to the initially-active node after failure recovery. Default switchover type is revertive 10s.

Attribute Name: enable-non-revertive

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
      </enable-non-revertive><!-- operation="delete"-->
    </config>
  </extended>
</interface>
</interfaces>
```

Command Syntax

```
raon ip-switchover type non-revertive
```

Configure enable re routing

Enable re-routing when the bandwidth crosses down the minimum bandwidth

Attribute Name: enable-re-routing

Attribute Type: empty

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <bandwidth-management>
      <config>
        </enable-re-routing><!-- operation="delete"-->
      </config>
    </bandwidth-management>
  </extended>
</interface>
</interfaces>

```

Command Syntax

```
re-routing
```

Configure enable speed

This object is used to enable port-monitoring for the specified parameters, average speed of the interface

Attribute Name: enable-speed

Attribute Type: empty

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <port-monitor>
      <config>
        </enable-speed><!-- operation="delete"-->
      </config>
    </port-monitor>
  </extended>
</interface>
</interfaces>

```

Command Syntax

```
monitor speed
```

Configure enable queue drops

This object is used to enable queue-drops of the interface

Attribute Name: enable-queue-drops

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <port-monitor>
        <config>
          </enable-queue-drops><!-- operation="delete"-->
        </config>
      </port-monitor>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
monitor queue-drops
```

Configure enable pfc mon

This object is used to enable PFC-monitoring of the interface

Attribute Name: enable-pfc-mon

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <port-monitor>
        <config>
          </enable-pfc-mon><!-- operation="delete"-->
        </config>
      </port-monitor>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
monitor pfc
```

Configure enable ecn mon

This object is used to enable PFC-monitoring of the interface

Attribute Name: enable-ecn-mon

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <port-monitor>
        <config>
          </enable-ecn-mon><!-- operation="delete"-->
        </config>
      </port-monitor>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
monitor ecn
```

Configure warning threshold

This object is used to specify warning threshold for port speed monitor. Warning threshold must be greater than recovery threshold. Default value of warning-threshold is 90.

Attribute Name: warning-threshold

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: recovery-threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
```

```

</config>
<extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <port-monitor>
    <port-monitor-threshold>
      <config>
        <recovery-threshold>1</recovery-threshold>
        <warning-threshold>1</warning-threshold>
      </config>
    </port-monitor-threshold>
  </port-monitor>
</extended>
</interface>
</interfaces>

```

Command Syntax

```
monitor speed threshold warning <1-100> recovery <1-100>
```

Configure subif service queue

This attribute specifies the sub interface queue type

This command is supported when following feature are enabled subinterface feature

Attribute Name: subif-service-queue

Attribute Type: enum (physical|flow-id)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <service-queue>
        <config>
          <subif-service-queue>physical</subif-service-queue> <!--
operation="delete"-->
        </config>
      </service-queue>
    </extended>
  </interface>
</interfaces>

```

Command Syntax

```
service-queue (physical|flow-id)
```

Configure aclif type

Use this attribute to set the Hardware timestamp

Attribute Name: aclif-type

Attribute Type: enum (failover|no-failover)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <aclif>
        <config>
          <aclif-type>failover</aclif-type> <!-- operation="delete"-->
        </config>
      </aclif>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
aclif (failover|no-failover)
```

Configure encap default

Use this attribute to configure encapsulation as default

This command is supported when following feature are enabled subinterface feature

Attribute Name: encap-default

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <config>
          </encap-default><!-- operation="delete"-->
        </config>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```


Command Syntax

```
encapsulation default
```

Configure encap untagged

Use this attribute to configure encapsulation as untagged

This command is supported when following feature are enabled subinterface feature

Attribute Name: encap-untagged

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <config>
          </encap-untagged><!-- operation="delete"-->
        </config>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
encapsulation untagged
```

Configure vlan action

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: push-tpid

Attribute Type: union

Attribute Name: push-outer-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface> <!-- operation="delete"-->
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
  <extended>
    <subinterface-encapsulation>
      <rewrite>
        <config>
          <vlan-action>pop</vlan-action>
          <push-tpid>dot1q</push-tpid>
          <push-outer-vlan-id>1</push-outer-vlan-id>
        </config>
      </rewrite>
    </subinterface-encapsulation>
  </extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (push) (dot1q|dot1ad|TPID) <1-4094>
```

Configure push tpid

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: push-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: push-outer-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: push-inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
  <vlan-action>pop</vlan-action>
  <push-tpid>dot1q</push-tpid>
  <push-outer-vlan-id>1</push-outer-vlan-id>
  <push-inner-vlan-id>inner-dot1q</push-inner-vlan-id>
</config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (push) (dot1q|dot1ad) <1-4094> inner-dot1q <1-4094>
```

Configure rewrite translate action

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: union

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
  <vlan-action>pop</vlan-action>
  <rewrite-translate-action>1-to-1</rewrite-translate-action>
  <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
  <outer-vlan-id>0</outer-vlan-id>
</config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (translate) (1-to-1) (dot1q|dot1ad|TPID) <0-4094>
```

Configure dot1q dot1ad tpid

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Attribute Name: i-dot1q-dot1ad-tpid

Attribute Type: union

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
</interface>
<subinterface-encapsulation>
<rewrite>
<config>
  <vlan-action>pop</vlan-action>
  <rewrite-translate-action>1-to-1</rewrite-translate-action>
  <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
  <outer-vlan-id>0</outer-vlan-id>
  <i-dot1q-dot1ad-tpid>dot1q</i-dot1q-dot1ad-tpid>
  <inner-vlan-id>1</inner-vlan-id>
</config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (translate) (1-to-2) (dot1q|dot1ad) <0-4094> (dot1q|TPID) <1-4094>
```

Configure outer vlan id

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied)

device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Attribute Name: i-dot1q-dot1ad-tpid

Attribute Type: enum (dot1q)

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
  <vlan-action>pop</vlan-action>
  <rewrite-translate-action>1-to-1</rewrite-translate-action>
  <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
  <outer-vlan-id>0</outer-vlan-id>
  <i-dot1q-dot1ad-tpid>dot1q</i-dot1q-dot1ad-tpid>
  <inner-vlan-id>1</inner-vlan-id>
</config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (translate) (2-to-2) (dot1q|dot1ad) <0-4094> (dot1q) <1-4094>
```

Configure interfaces name

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
  <vlan-action>pop</vlan-action>
  <rewrite-translate-action>1-to-1</rewrite-translate-action>
  <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
  <outer-vlan-id>0</outer-vlan-id>
</config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
```

```
</interfaces>
```

Command Syntax

```
rewrite (translate) (2-to-1) (dot1q|dot1ad) <0-4094>
```

Configure enable pop

This attribute is used to configure pop outer and inner tag. To change the rewrite config, delete and recreate the entire rewrite config.

This command is supported when following feature are enabled subinterface feature

Attribute Name: enable-pop

Attribute Type: enum (1tag|2tag)

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <rewrite>
          <config>
            <vlan-action>pop</vlan-action>
            <enable-pop>1</enable-pop>
          </config>
        </rewrite>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
rewrite (pop)
```

Configure vlan action

This attribute is used to configure pop outer and inner tag. To change the rewrite config, delete and recreate the entire rewrite config.

This command is supported when following feature are enabled subinterface feature

Attribute Name: enable-pop

Attribute Type: enum (1tag|2tag)

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <rewrite>
          <config>
            <vlan-action>1</vlan-action>
            <enable-pop>2</enable-pop>
          </config>
        </rewrite>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
rewrite pop-2tag
```

Configure disable egr pcp

This attribute is used to preserve cos-dei bits at egress

This command is supported when following feature are enabled subinterface feature,DNX feature

Attribute Name: disable-egr-pcp

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <rewrite>
          <egress>
            <config>
              </disable-egr-pcp><!-- operation="delete"-->
            </config>
          </egress>
        </rewrite>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```

```

</extended>
</interface>
</interfaces>

```

Command Syntax

```
rewrite egr-pcp-disable
```

Configure encapsulation type

This attribute is used to configure the encapsulation type(dot1q/dot1ad).

This command is supported when following feature are enabled subinterface feature

Attribute Name: encapsulation-type

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <subinterface-encapsulation>
      <single-tag-vlan-matches>
        <single-tag-vlan-match> <!-- operation="delete"-->
          <encapsulation-type>dot1q</encapsulation-type>
          <config>
            <encapsulation-type>dot1q</encapsulation-type>
            <outer-vlan-id>VLAN_RANGE2</outer-vlan-id>
          </config>
        </single-tag-vlan-match>
      </single-tag-vlan-matches>
    </subinterface-encapsulation>
  </extended>
</interface>
</interfaces>

```

Command Syntax

```
encapsulation (dot1q|dot1ad) VLAN_RANGE2
```

Configure outer vlan id

This attribute is used to configure the outer VLAN tag as a single value alone

This command is supported when following feature are enabled subinterface feature

Attribute Name: outer-vlan-id

Attribute Type: string

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-encapsulation>
        <double-tag-vlan-matches>
          <double-tag-vlan-match> <!-- operation="delete"-->
            <outer-vlan-id>VLAN_RANGE2</outer-vlan-id>
            <config>
              <outer-vlan-id>1</outer-vlan-id>
              <encap-type>dot1q</encap-type>
              <inner-vlan-id>VLAN_RANGE2</inner-vlan-id>
            </config>
            <encap-type>dot1q</encap-type>
          </double-tag-vlan-match>
        </double-tag-vlan-matches>
      </subinterface-encapsulation>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
encapsulation (dot1q|dot1ad) VLAN_RANGE2 inner-dot1q VLAN_RANGE2
```

Configure split horizon group

This attribute is used to configure the split-horizon

This command is supported when following feature are enabled subinterface feature

Attribute Name: split-horizon-group

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
```

```

        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <subinterface-split-horizon>
    <config>
        <split-horizon-group>network</split-horizon-group> <!--
operation="delete"-->
    </config>
    </subinterface-split-horizon>
    </extended>
    </interface>
    </interfaces>

```

Command Syntax

```
split-horizon group (network|access1|access2)
```

Configure linkup debounce time

Link debounce timer value for down-up transition

Attribute Name: linkup-debounce-time

Attribute Type: uint32

Attribute Range: 0-1800000

Attribute Name: linkdown-debounce-time

Attribute Type: uint32

Attribute Range: 0-1800000

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <link-debounce-time>
    <config>
        <linkdown-debounce-time>0</linkdown-debounce-time>
        <linkup-debounce-time>0</linkup-debounce-time>
    </config>
    </link-debounce-time>
    </extended>
    </interface>
</interfaces>

```

Command Syntax

```
link-debounce-time <0-1800000> <0-1800000>
```

Configure rate

Interface minimum bandwidth

This command is supported when following feature are enabled TE Enabled

Attribute Name: rate

Attribute Type: uint32

Attribute Range: 1-1000000000

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <minimum-bandwidth>
        <config>
          <rate-unit>kbps</rate-unit>
          <rate>1</rate>
        </config>
      </minimum-bandwidth>
    </extended>
  </interface>
</interfaces>
```

Command Syntax

```
minimum-bandwidth <1-1000000000> (kbps|mbps|gbps)
```

Configure l2cp type

This attribute is used to configure the layer2 control-protocol type

This command is supported when following feature are enabled Layer-2 feature

Attribute Name: l2cp-type

Attribute Type: enum (stp|lacp|dot1x|lldp|efm|elmi|sync)

Attribute Name: protocol-process

Attribute Type: enum (peer|tunnel|discard)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
```

```

    <name>IFNAME</name>
  </config>
  <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <l2-control-protocol> <!-- operation="delete"-->
      <l2cp-type>stp</l2cp-type>
      <config>
        <l2cp-type>stp</l2cp-type>
        <protocol-process>peer</protocol-process>
      </config>
    </l2-control-protocol>
  </extended>
</interface>
</interfaces>

```

Command Syntax

l2protocol (stp|lacp|dot1x|lldp|efm|elmi|synce) (peer|tunnel|discard)

Configure forward err correction

This Object is used to set forward-error-correction to interface

Attribute Name: forward-err-correction

Attribute Type: enum (off|on|auto|on cl74|on cl91|on cl108)

Default Value: auto

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <extended-ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
        <config>
          <forward-err-correction>auto</forward-err-correction> <!--
operation="delete"-->
        </config>
      </extended-ethernet>
    </ethernet>
  </interface>
</interfaces>

```

Command Syntax

fec (off|on|auto|on cl74|on cl91|on cl108)

Configure load interval

This attribute is used to configure load interval period in multiples of 30 seconds

Attribute Name: load-interval

Attribute Type: uint16

Default Value: 300

Attribute Range: 30-300

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <extended-ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
        <config>
          <load-interval>30</load-interval> <!-- operation="delete"-->
        </config>
      </extended-ethernet>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
load-interval <30-300>
```

Configure bcast value

This attribute is used to set the storm control configuration, Set Broadcast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: bcast-value

Attribute Type: union

Attribute Name: bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
```

```

    <broadcast>
    <config>
        <bcast-rate-limit-format>0</bcast-rate-limit-format>
        <bcast-burst-value>1</bcast-burst-value>
        <bcast-value>LEVEL</bcast-value>
    </config>
</broadcast>
</storm-control>
</ethernet>
</interface>
</interfaces>

```

Command Syntax

```
storm-control broadcast level LEVEL (burst-size <1-33292>|)
```

Configure bcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: bcast-value

Attribute Type: union

Attribute Name: bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
        <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
            <broadcast>
                <config>
                    <bcast-value>0</bcast-value>
                    <bcast-burst-value>1</bcast-burst-value>
                    <bcast-rate-limit-format>level</bcast-rate-limit-format>
                </config>
            </broadcast>
        </storm-control>
    </ethernet>
</interface>
</interfaces>

```


Command Syntax

```
storm-control broadcast <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure mcast value

This attribute is used to set the storm control configuration, Set Multicast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: mcast-value

Attribute Type: union

Attribute Name: mcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: mcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
        <mcast>
          <config>
            <mcast-rate-limit-format>0</mcast-rate-limit-format>
            <mcast-burst-value>1</mcast-burst-value>
            <mcast-value>LEVEL</mcast-value>
          </config>
        </mcast>
      </storm-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
storm-control multicast level LEVEL (burst-size <1-33292>|)
```

Configure mcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: mcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: mcast-value

Attribute Type: union

Attribute Name: mcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
        <multicast>
          <config>
            <mcast-value>0</mcast-value>
            <mcast-burst-value>1</mcast-burst-value>
            <mcast-rate-limit-format>level</mcast-rate-limit-format>
          </config>
        </multicast>
      </storm-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
storm-control multicast <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure dlf bcast value

This attribute is used to set the storm control configuration, Set DLF Broadcast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: dlf-bcast-value

Attribute Type: union

Attribute Name: dlf-bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: dlf-bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
```

```

</config>
<ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
  <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <dlf-broadcast>
      <config>
        <dlf-bcast-rate-limit-format>0</dlf-bcast-rate-limit-format>
        <dlf-bcast-burst-value>1</dlf-bcast-burst-value>
        <dlf-bcast-value>LEVEL</dlf-bcast-value>
      </config>
    </dlf-broadcast>
  </storm-control>
</ethernet>
</interface>
</interfaces>

```

Command Syntax

```
storm-control dlf level LEVEL (burst-size <1-33292>|)
```

Configure dlf bcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: dlf-bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: dlf-bcast-value

Attribute Type: union

Attribute Name: dlf-bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
  <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
    <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <dlf-broadcast>
        <config>
          <dlf-bcast-value>0</dlf-bcast-value>
          <dlf-bcast-burst-value>1</dlf-bcast-burst-value>
          <dlf-bcast-rate-limit-format>level</dlf-bcast-rate-limit-format>
        </config>
      </dlf-broadcast>
    </storm-control>
  </ethernet>
</interface>
</interfaces>

```

```

</ethernet>
</interface>
</interfaces>

```

Command Syntax

```
storm-control dlf <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure global load-interval

This attribute is used to configure load interval on all interfaces and its set period in multiples of 30 seconds

Attribute Name: load-interval

Attribute Type: uint16

Default Value: 300

Attribute Range: 30-300

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
    <load-interval>30</load-interval> <!-- operation="delete"-->
</config>
</global>
</interfaces>

```

Command Syntax

```
default-interface load-interval <30-300>
```

Configure error disable stp bpdu guard

This object is used to configure error disable STP BPDU Guard

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
    <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>

```

Command Syntax

```
no errdisable cause stp-bpdu-guard
```

Configure reason

This object is to enable various error-disable reasons like lag-mismatch, stp-bpdu-guard, link-flap and loopback-detection. As the datatype is BITS, 0th bit corresponds to lag-mismatch, 1st bit corresponds to stp-bpdu-guard, 2nd bit corresponds to link-flap

Attribute Name: reason

Attribute Type: bits (lag-mismatch|link-flap|mac-move-limit|storm-control)

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <error-disable>
      <config>
        <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
        <reason>lag-mismatch</reason> <!-- operation="delete"-->
      </config>
    </error-disable>
  </global>
</interfaces>
```

Command Syntax

```
errdisable cause stp-bpdu-guard {lag-mismatch|link-flap|mac-move-limit|storm-
control}
```

Configure link flap timer interval

This object is configure timer interval for link-flap timer

Attribute Name: link-flap-timer-interval

Attribute Type: uint32

Attribute Range: 1-1800

Attribute Name: link-flap-max-count

Attribute Type: uint32

Attribute Range: 1-100

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <error-disable>
      <config>
        <link-flap-max-count>1</link-flap-max-count> <!-- operation="delete"-->
        <link-flap-timer-interval>1</link-flap-timer-interval> <!--
operation="delete"-->
      </config>
```

```

</error-disable>
</global>
</interfaces>

```

Command Syntax

```
errdisable link-flap-setting max-flaps <1-100> time <1-1800>
```

Configure storm control timer interval

This attribute is configure timer interval for storm-control timer

Attribute Name: storm-control-timer-interval

Attribute Type: uint32

Attribute Range: 1-1800

Attribute Name: storm-control-max-count

Attribute Type: uint32

Attribute Range: 1-100

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <error-disable>
      <config>
        <storm-control-max-count>1</storm-control-max-count> <!-- operation="delete"-->
        <storm-control-timer-interval>1</storm-control-timer-interval> <!--
operation="delete"-->
      </config>
    </error-disable>
  </global>
</interfaces>

```

Command Syntax

```
errdisable storm-control discard-hit <1-100> time <1-1800>
```

Configure error-disable reason

This object is to enable various error-disable reasons like lag-mismatch, stp-bpdu-guard, link-flap and loopback-detection. As the datatype is BITS, 0th bit corresponds to lag-mismatch, 1st bit corresponds to stp-bpdu-guard, 2nd bit corresponds to link-flap

Attribute Name: reason

Attribute Type: bits (lag-mismatch|link-flap|mac-move-limit|storm-control)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <error-disable>
      <config>

```

```

        <reason>lag-mismatch</reason> <!-- operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>

```

Command Syntax

```
errdisable cause {lag-mismatch|link-flap|mac-move-limit|storm-control}
```

Configure error-disable error-disable-stp-bpdu-guard

This object is used to configure error disable STP BPDU Guard

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
        <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>

```

Command Syntax

```
errdisable cause stp-bpdu-guard
```

Configure timeout interval

This object is to configure timeout for error-disable automatic recovery timer

Attribute Name: timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-1000000

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
        <timeout-interval>0</timeout-interval> <!-- operation="delete"-->
</config>
</error-disable>
</global>

```

```
</interfaces>
```

Command Syntax

```
errdisable timeout interval <0-1000000>
```

Configure mac move limit

This object configures threshold for mac movement

Attribute Name: mac-move-limit

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-1000

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
  <mac-move-limit>1</mac-move-limit> <!-- operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>
```

Command Syntax

```
errdisable mac-move-limit <1-1000>
```

Configure protocol process

This attribute is used to configure the layer2 control-protocol type

This command is supported when following feature are enabled Layer-2 feature

Attribute Name: l2cp-type

Attribute Type: enum (stp|lacp|dot1x|lldp|efm|elmi|synce)

Attribute Name: protocol-process

Attribute Type: enum (peer|tunnel|discard)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<l2-control-protocols>
<l2-control-protocol> <!-- operation="delete"-->
  <l2cp-type>stp</l2cp-type>
<config>
  <l2cp-type>stp</l2cp-type>
  <protocol-process>peer</protocol-process>
</config>
```



```

</l2-control-protocol>
</l2-control-protocols>
</global>
</interfaces>

```

Command Syntax

```

default-interface l2protocol (stp|lacp|dot1x|lldp|efm|elmi|synce)
(peer|tunnel|discard)

```

Configure if type

Use this attribute to set the hardware interface type

Attribute Name: if-type

Attribute Type: enum (eth-switchport|eth-routed|l2-subif|l3-subif|svi|lag|mlag|bvi|irb)

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<mtus>
<mtu> <!-- operation="delete"-->
  <if-type>eth-switchport</if-type>
  <config>
    <if-type>eth-switchport</if-type>
    <mtu>64</mtu>
  </config>
</mtu>
</mtus>
</global>
</interfaces>

```

Command Syntax

```

default-interface type (eth-switchport|eth-routed|l2-subif|l3-
subif|svi|lag|mlag|bvi|irb) mtu <64-65535>

```

Configure mode

This attribute is used to unset the tunnel mode

This command is supported when following feature are enabled tunnel feature

Attribute Name: mode

Attribute Type: enum (vxlan)

Default Value: vxlan

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
      <mode>vxlan</mode> <!-- operation="delete"-->
    </config>
  </tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel mode (vxlan)
```

Configure src

This attribute is used to set tunnel source

This command is supported when following feature are enabled tunnel feature

Attribute Name: src

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
      <src>A.B.C.D</src> <!-- operation="delete"-->
    </config>
  </tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel source A.B.C.D
```

Configure multicast interface

This attribute is used to configure egress multicast interface for tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: multicast-interface

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <multicast-interface>IFNAME</multicast-interface> <!--
operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

Command Syntax

```
tunnel egress-multicast-interface IFNAME
```

Configure dst

This attribute is used to set destination of tunnel packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: dst

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <dst>A.B.C.D</dst> <!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

Command Syntax

```
tunnel destination A.B.C.D
```

Configure checksum enable

This attribute is used to enable end to end checksumming of packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </checksum-enable><!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

Command Syntax

```
tunnel checksum
```

Configure tos byte

This attribute is used to set type of service byte

This command is supported when following feature are enabled tunnel feature

Attribute Name: tos-byte

Attribute Type: uint16

Attribute Range: 0-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <tos-byte>0</tos-byte> <!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

Command Syntax

```
tunnel tos <0-255>
```

Configure ttl

This attribute is used to set time to live

This command is supported when following feature are enabled tunnel feature

Attribute Name: ttl

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <ttl>1</ttl> <!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

Command Syntax

```
tunnel ttl <1-255>
```

Configure path mtu enable

This attribute is used to enable Path MTU Discovery on tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: path-mtu-enable

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        </path-mtu-enable><!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>
```

```

    </config>
  </tunnel>
</interface>
</interfaces>

```

Command Syntax

```
tunnel path-mtu-discovery
```

Configure dst mac address

This attribute is used to set next Hop Destination MAC Address of Tunnel Packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: dst-mac-address

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
        <dst-mac-address>MAC</dst-mac-address> <!-- operation="delete"-->
      </config>
    </tunnel>
  </interface>
</interfaces>

```

Command Syntax

```
tunnel dmac MAC
```

Configure gre key

This attribute is used to set the gre-key for tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: gre-key

Attribute Type: union

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
  </interface>
</interfaces>

```

```

    <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
        <gre-key>IF_TUNNEL_KEY_T</gre-key>
    </config>
</tunnel>
</interface>
</interfaces>

```

Command Syntax

```
tunnel key (A.B.C.D|<0-4294967295>)
```

Configure link scan timer

Link timer value at which device scans its network links to check their status

Attribute Name: link-scan-timer

Attribute Type: uint16

Attribute Range: 50-1000

Netconf edit-config payload

```

<link-scan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
    <link-scan-timer>50</link-scan-timer> <!-- operation="delete"-->
</config>
</link-scan>

```

Command Syntax

```
link-scan-timer <50-1000>
```

Configure snmp lower layer

Use this attribute to set the lower layer down

Attribute Name: snmp-lower-layer

Attribute Type: empty

Netconf edit-config payload

```

<link-scan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
    </snmp-lower-layer><!-- operation="delete"-->
</config>
</link-scan>

```

Command Syntax

```
snmp lower-layer-down-trap enable
```

Configure protocol type

Use this attribute to set the protocol type

Attribute Name: protocol-type

Attribute Type: enum (all)

Netconf edit-config payload

```
<l2-protocol xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <config>
    <protocol-type>all</protocol-type> <!-- operation="delete"-->
  </config>
</l2-protocol>
```

Command Syntax

```
l2protocol (all) learn-disable
```

clear interface (IFNAME|) cpu counters

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<clear-interface-cpu-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
if-extended">
  <if-name>IFNAME</if-name>
</clear-interface-cpu-counters>
```

Command Syntax

```
clear interface (IFNAME|) cpu counters
```

clear interface (IFNAME|) fec

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<clear-interface-forward-error-correction-counters xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <if-name>IFNAME</if-name>
</clear-interface-forward-error-correction-counters>
```

Command Syntax

```
clear interface (IFNAME|) fec
```

clear interface IFNAME error-disable

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<clear-interface-error-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <if-name>IFNAME</if-name>
</clear-interface-error-disable>
```

Command Syntax

```
clear interface IFNAME error-disable
```

clear l2protocol interface (IFNAME|) counters (peer|tunnel|discard|tunnel-discard|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: protocol

Attribute Type: enum (peer|tunnel|discard|tunnel-discard|all)

Default Value: all

Netconf RPC payload

```
<clear-l2protocol-interface-counter xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <if-name>IFNAME</if-name>
  <protocol>all</protocol>
</clear-l2protocol-interface-counter>
```

Command Syntax

```
clear l2protocol interface (IFNAME|) counters (peer|tunnel|discard|tunnel-discard|)
```

no sniff

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<interface-sniff-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
  <interface-name>WORD</interface-name>
</interface-sniff-disable>
```

Command Syntax

```
no sniff
```

IPI-IF-FLOWSPEC

Configure flowspec disable

disable FLOWSPEC for an interface

Attribute Name: flowspec-disable

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <interface-flowspec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
flowspec">
      <ipv4>
        <config>
          </flowspec-disable><!-- operation="delete"-->
        </config>
      </ipv4>
    </interface-flowspec>
  </interface>
</interfaces>
```

Command Syntax

```
ipv4 flowspec-disable
```

IPI-SYNCE

Configure enable

Use this command to configure Synchronous Ethernet. This command changes the mode from configure mode to configure Synchronous Ethernet mode and initializes the global Synchronous Ethernet parameters.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <globals>
    <config>
      </enable>
    </config>
  </globals>
</synce>
```

```
</config>
</globals>
</synce>
```

Command Syntax

```
synce
```

Configure network option

Use this command to set the synchronization option for the internal clock that is locked in frequency to an incoming signal.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: network-option

Attribute Type: enum (1|2)

Default Value: 1

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <globals>
    <config>
      <network-option>1</network-option> <!-- operation="delete"-->
    </config>
  </globals>
</synce>
```

Command Syntax

```
synchronization option (1|2)
```

Configure clock selection mode

Use this command to determine whether to use the Quality Level (QL) as a criteria when selecting a clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-selection-mode

Attribute Type: enum (ql-enabled|ql-disabled)

Default Value: ql-enabled

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <globals>
    <config>
      <clock-selection-mode>ql-enabled</clock-selection-mode> <!-- operation="delete"-->
    </config>
  </globals>
</synce>
```

Command Syntax

```
clock-selection mode (ql-enabled|ql-disabled)
```

Configure dpll3 select 10mhz in

Use this command to select/deselect dpll3 input

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: dpll3-select-10mhz-in

Attribute Type: empty

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <globals>
    <config>
      </dpll3-select-10mhz-in><!-- operation="delete"-->
    </config>
  </globals>
</synce>
```

Command Syntax

```
dpll3-select 10mhz-in
```

Configure holdover timer

set this command to enable synce holdover (default 120 min)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: holdover-timer

Attribute Type: uint16

Default Value: 120

Attribute Range: 0-1440

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <globals>
    <config>
      <holdover-timer>0</holdover-timer> <!-- operation="delete"-->
    </config>
  </globals>
</synce>
```

Command Syntax

```
holdover <0-1440>
```

Configure name

Use this command to enable Synchronous Ethernet for an interface. This command changes the mode from interface mode to interface Synchronous Ethernet mode. This command does not automatically start synchronization distribution. You must explicitly give the mode command, specifying the synchronous option

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </enable>
  </interface>
</interfaces>
</synce>
```

Command Syntax

```
synce
```

Configure synchronous mode

Use this command to configure the interface as synchronous or non-synchronous

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: synchronous-mode

Attribute Type: enum (synchronous|non-synchronous)

Default Value: non-synchronous

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <synchronous-mode>non-synchronous</synchronous-mode> <!-- operation="delete"-->
    </interface>
  </interfaces>
</synce>
```

Command Syntax

```
mode (synchronous|non-synchronous)
```

Configure input source priority

Use this command to set an input timing source. Synchronization packets are received from this source and sent to the clock selection algorithm

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: input-source-priority

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <input-source-priority>0</input-source-priority> <!-- operation="delete"-->
    </interface>
  </interfaces>
</synce>
```

Command Syntax

```
input-source <0-255>
```

Configure is output source

Use this command to configures an Ethernet interface as a timing output interface

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: is-output-source

Attribute Type: boolean

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <is-output-source>true</is-output-source> <!-- operation="delete"-->
    </interface>
  </interfaces>
</synce>
```

```
</interfaces>
</synce>
```

Command Syntax

```
output-source
```

Configure wait to restore timer

Use this command to set the wait-to-restore timer in minutes. The wait-to-restore time ensures that a synchronization source that previously failed is considered by the selection process again only if it is fault free for a certain time.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 0-12

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <wait-to-restore-timer>0</wait-to-restore-timer> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
wait-to-restore <0-12>
```

Configure vlan id

use this command to configure and unconfigure the dot1q 1-4095

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
```

```

    <name>WORD</name>
  </config>
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>

```

Command Syntax

```
dot1q <1-4095>
```

Configure hold off timer

Use this command to set the hold-off time in milliseconds. The hold-off time ensures that short activation of signal fail is not passed to the selection process.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 300

Attribute Range: 300-1800

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <hold-off-timer>300</hold-off-timer> <!-- operation="delete"-->
    </interface>
  </interfaces>
</synce>

```

Command Syntax

```
hold-off <300-1800>
```

Configure quality level

Use this command to set the quality level (QL) for the timing source

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: quality-level

Attribute Type: string

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>

```



```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <quality-level>QL_VAL</quality-level> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>

```

Command Syntax

```
quality-level QL_VAL
```

Configure clock source id

Configure clock-source-identifier

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-source-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <clock-source-id>1</clock-source-id> <!-- operation="delete"-->
    </interface>
  </interfaces>
</synce>

```

Command Syntax

```
clock-source-id <1-255>
```

Configure auto neg mode

Use this command to configure mode

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: auto-neg-mode

Attribute Type: enum (master|slave)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <interfaces>

```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <auto-neg-mode>master</auto-neg-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</sync>

```

Command Syntax

```
base-t (master|slave)
```

Configure external sync interface

sync external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-sync-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-sync-interface>gps</external-sync-interface>
    <config>
      <external-sync-interface>gps</external-sync-interface>
    </config>
  </external-interface>
</external-interfaces>
</sync>

```

Command Syntax

```
sync-interface (gps|10mhz-in|ptp|2mhz-in)
```

Configure external-interfaces external-sync-interface

sync external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-sync-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-sync-interface>gps</external-sync-interface>

```

```

    <config>
      <external-synce-interface>gps</external-synce-interface>
    </config>
  </external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
synce-interface (bits-t1|bits-e1)
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-synce-interface>bits-t1-1</external-synce-interface>
    <config>
      <external-synce-interface>bits-t1-1</external-synce-interface>
    </config>
  </external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
synce-interface bits-t1 0
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-synce-interface>bits-t1-2</external-synce-interface>
    <config>
      <external-synce-interface>bits-t1-2</external-synce-interface>
    </config>
  </external-interface>
</external-interfaces>
</synce>

```

```

</external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
synce-interface bits-t1 1
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
  <external-synce-interface>bits-e1-0</external-synce-interface>
  <config>
    <external-synce-interface>bits-e1-0</external-synce-interface>
  </config>
</external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
synce-interface bits-t1 2
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
  <external-synce-interface>bits-e1-1</external-synce-interface>
  <config>
    <external-synce-interface>bits-e1-1</external-synce-interface>
  </config>
</external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
synce-interface bits-e1 0
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-synce-interface>bits-e1-2</external-synce-interface>
    <config>
      <external-synce-interface>bits-e1-2</external-synce-interface>
    </config>
  </external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
synce-interface bits-e1 1
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface> <!-- operation="delete"-->
      <external-synce-interface>gps</external-synce-interface>
    <config>
      <external-synce-interface>gps</external-synce-interface>
    </config>
  </external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
synce-interface bits-e1 2
```

Configure external-interface synchronous-mode

Configure the synce interface mode

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: synchronous-mode

Attribute Type: enum (synchronous|non-synchronous)

Default Value: non-synchronous

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface>
      <external-synce-interface>gps</external-synce-interface>
      <config>
        <external-synce-interface>gps</external-synce-interface>
      </config>
      <synchronous-mode>non-synchronous</synchronous-mode> <!-- operation="delete"-->
    </external-interface>
  </external-interfaces>
</synce>
```

Command Syntax

```
mode (synchronous|non-synchronous)
```

Configure external-interface input-source-priority

Use this command to set an input timing source. Synchronization packets are received from this source and sent to the clock selection algorithm. Use the no form of this command to delete an input source.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: input-source-priority

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface>
      <external-synce-interface>gps</external-synce-interface>
      <config>
        <external-synce-interface>gps</external-synce-interface>
      </config>
      <input-source-priority>0</input-source-priority> <!-- operation="delete"-->
    </external-interface>
  </external-interfaces>
</synce>
```

Command Syntax

```
input-source <0-255>
```

Configure external-interface wait-to-restore-timer

Use this command to set the wait-to-restore timer in minutes. The wait-to-restore time ensures that a synchronization source that previously failed is considered by the selection process again only if it is fault free for a certain time

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 0-12

Netconf edit-config payload

```
<sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">
  <external-interfaces>
    <external-interface>
      <external-sync-interface>gps</external-sync-interface>
      <config>
        <external-sync-interface>gps</external-sync-interface>
      </config>
      <wait-to-restore-timer>0</wait-to-restore-timer> <!-- operation="delete"-->
    </external-interface>
  </external-interfaces>
</sync>
```

Command Syntax

```
wait-to-restore <0-12>
```

Configure external-interface hold-off-timer

Use this command to set the hold-off time in milliseconds. The hold-off time ensures that short activation of signal fail is not passed to the selection process

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 300

Attribute Range: 300-1800

Netconf edit-config payload

```
<sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">
  <external-interfaces>
    <external-interface>
      <external-sync-interface>gps</external-sync-interface>
      <config>
```

```

    <external-synce-interface>gps</external-synce-interface>
  </config>
  <hold-off-timer>300</hold-off-timer> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>

```

Command Syntax

```
hold-off <300-1800>
```

Configure external-interface quality-level

Use this command to set the quality level (QL) for the timing source

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: quality-level

Attribute Type: string

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <external-interfaces>
    <external-interface>
      <external-synce-interface>gps</external-synce-interface>
      <config>
        <external-synce-interface>gps</external-synce-interface>
      </config>
      <quality-level>QL_VAL</quality-level> <!-- operation="delete"-->
    </external-interface>
  </external-interfaces>
</synce>

```

Command Syntax

```
quality-level QL_VAL
```

Configure options

Use this Attribute to set or unset the SyncE debug related configurations

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: options

Attribute Type: bits (event|recvd|trans|all)

Netconf edit-config payload

```

<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
  <debug>
    <config>
      <options>event</options> <!-- operation="delete"-->
    </config>
  </debug>

```



```
</sync>
```

Command Syntax

```
debug sync (event|recvd|trans|all)
```

clear sync stats (interface IFNAME|)

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-sync-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">  
<interface-name>IFNAME</interface-name>  
</clear-sync-stats>
```

Command Syntax

```
clear sync stats (interface IFNAME|)
```

debug sync (event|recvd|trans|all)

Attribute Name: debug-options

Attribute Type: bits (event|recvd|trans|all)

Netconf RPC payload

```
<sync-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sync">  
<debug-options>event</debug-options>  
</sync-terminal-debug-on>
```

Command Syntax

```
debug sync (event|recvd|trans|all)
```

no debug sync (event|recvd|trans|all)

Attribute Name: debug-options

Attribute Type: bits (event|recvd|trans|all)

Netconf RPC payload

```
<sync-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
sync">  
<debug-options>event</debug-options>  
</sync-terminal-debug-off>
```

Command Syntax

```
no debug sync (event|recvd|trans|all)
```

IPI-SYSTEM

Configure hostname

Use this command to set the network name for the device. OcNOS uses this name in system prompts and default configuration filenames. Setting a host name using this command also sets the host name in the kernel. After giving the hostname command, you must write to memory using the write command. If you do not write to memory, the change made by this command (the new host name) is not set after the device reboots.

Attribute Name: hostname

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
  <config>
    <hostname>WORD</hostname> <!-- operation="delete"-->
  </config>
</system-info>
```

Command Syntax

```
hostname WORD
```

Configure disable

disable system request

Attribute Name: disable

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
<system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
  <sysrq>
    <config>
      <disable>true</disable> <!-- operation="delete"-->
    </config>
  </sysrq>
</system-info>
```

Command Syntax

```
sysrq disable
```

Configure timezone name

The attribute display timezone name used for the system

Attribute Name: timezone-name

Attribute Type: string

Netconf edit-config payload

```
<system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
  <clock>
    <config>
      <timezone-name>WORD</timezone-name> <!-- operation="delete"-->
    </config>
  </clock>
</system-info>
```

Command Syntax

```
clock timezone WORD
```

IPI-NETWORK-SERVICES-MANAGER

Configure options

Use this attribute to debug nsm

Attribute Name: options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet rcv|packet rcv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)

Netconf edit-config payload

```
<network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <debug>
    <nsm>
      <config>
        <options>addressmonitor</options> <!-- operation="delete"-->
      </config>
    </nsm>
  </debug>
</network-services-manager>
```

Command Syntax

```
debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet
  detail|packet rcv|packet rcv detail|packet send|packet send
  detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp
  ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all))
```

Configure pkt-mgr options

Use this attribute to debug vlan packet

Attribute Name: options

Attribute Type: bits (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Netconf edit-config payload

```
<network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <debug>
    <pkt-mgr>
      <config>
        <options>l2 protocol cfm</options> <!-- operation="delete"-->
      </config>
    </pkt-mgr>
  </debug>
</network-services-manager>
```

Command Syntax

```
debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-
snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol
mstp|l2 protocol ptp|l2 protocol all)
```

Configure module name

Use this attribute to set debug HSL module

This command is supported when following feature are enabled HSL feature

Attribute Name: module-name

Attribute Type: enum

(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf edit-config payload

```
<network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <debug>
    <hsl>
      <hsl-module> <!-- operation="delete"-->
        <module-name>general</module-name>
      <config>
        <module-name>general</module-name>
        <level>all</level>
      </config>
    </hsl-module>
  </hsl>
</debug>
</network-services-manager>
```

Command Syntax

```
debug hsl
  (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lcp|qos|helper
  |rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
  {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

**debug nsm ((addressmonitor|bfd|events|hal events|hal
ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet
send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp
ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all))**

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet
recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls
rsvp ftn|mpls rsvp ilm|all)

Netconf RPC payload

```
<nsm-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <terminal-debug-options>addressmonitor</terminal-debug-options>
</nsm-terminal-debug-on>
```

Command Syntax

```
debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet
detail|packet recv|packet recv detail|packet send|packet send
detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp
ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all))
```

**no debug nsm ((addressmonitor|bfd|events|hal events|hal
ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet
send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp
ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all))**

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet
recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls
rsvp ftn|mpls rsvp ilm|all)

Netconf RPC payload

```
<nsm-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <terminal-debug-options>addressmonitor</terminal-debug-options>
</nsm-terminal-debug-off>
```

Command Syntax

```
no debug nsm ((addressmonitor|bfd|events|hal events|hal
ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet
```

```
send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp
ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all))
```

debug hsl

**(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
{all|default|info|debug|warn|error|fatal|admin|counter|pkt}**

Attribute Name: module-name

Attribute Type: enum

(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf RPC payload

```
<hsl-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <module-name>general</module-name>
  <level>all</level>
</hsl-terminal-debug-on>
```

Command Syntax

```
debug hsl
(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper
|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
{all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

no debug hsl

**(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
{all|default|info|debug|warn|error|fatal|admin|counter|pkt}**

Attribute Name: module-name

Attribute Type: enum

(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf RPC payload

```
<hsl-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
  <module-name>general</module-name>
  <level>all</level>
</hsl-terminal-debug-off>
```

Command Syntax

```
no debug hsl
    (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper
    |rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
    {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Attribute Name: terminal-debug-options

Attribute Type: bits (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Netconf RPC payload

```
<pktmgr-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-services-manager">
    <terminal-debug-options>l2 protocol cfm</terminal-debug-options>
</pktmgr-terminal-debug-on>
```

Command Syntax

```
debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-
snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol
mstp|l2 protocol ptp|l2 protocol all)
```

no debug pktmgr

Netconf RPC payload

```
<pktmgr-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-services-manager"/>
```

Command Syntax

```
no debug pktmgr
```

debug pktmgr enable

Netconf RPC payload

```
<pktmgr-debug-statistics-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-services-manager"/>
```

Command Syntax

```
debug pktmgr enable
```

debug pktmgr disable

Netconf RPC payload

```
<pktmgr-debug-statistics-disable xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-network-services-manager"/>
```

Command Syntax

```
debug pktmgr disable
```

debug pktmgr stats

Netconf RPC payload

```
<pktmgr-debug-statistics-get xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-services-manager"/>
```

Command Syntax

```
debug pktmgr stats
```

debug pktmgr (stats|pkt-errors)

Attribute Name: debug-error-statistics

Attribute Type: enum (stats|pkt-errors)

Netconf RPC payload

```
<pktmgr-debug-error-statistics-get xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-network-services-manager">
  <debug-error-statistics>stats</debug-error-statistics>
</pktmgr-debug-error-statistics-get>
```

Command Syntax

```
debug pktmgr (stats|pkt-errors)
```

clear nsm ipc stats

Netconf RPC payload

```
<clear-nsm-ipc-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-services-manager"/>
```

Command Syntax

```
clear nsm ipc stats
```

clear nsm server ipc-stats

Netconf RPC payload

```
<clear-nsm-server-ipc-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-network-services-manager"/>
```

Command Syntax

```
clear nsm server ipc-stats
```

snmp restart nsm

Netconf RPC payload

```
<nsm-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
snmp restart nsm
```

debug nsm mpls dev

Netconf RPC payload

```
<nsm-terminal-debug-nsm-mpls-dev-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
debug nsm mpls dev
```

no debug nsm mpls dev

Netconf RPC payload

```
<nsm-terminal-debug-nsm-mpls-dev-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
no debug nsm mpls dev
```

IPI-BRIDGE

Configure enable

Use this attribute to enable global bridge vlan check

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<global-bridge-vlan-check xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <global>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </global-bridge-vlan-check>
```

```
</global>
</global-bridge-vlan-check>
```

Command Syntax

```
global-bridge-vlan-check enable
```

Configure protocol

Bridge protocol type

Attribute Name: protocol

Attribute Type: enum (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp vlan-bridge ring)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
        <protocol>ieee</protocol>
      </config>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> protocol (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|rstp
ring|mstp ring|rstp vlan-bridge ring)
```

Configure instance name

Bridge protocol type

Attribute Name: protocol

Attribute Type: enum (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp vlan-bridge ring)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
```

```

    <instance-type>l2ni</instance-type>
  </config>
  <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <config>
      <protocol>ieee</protocol>
    </config>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```

bridge <1-32> protocol (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-
  rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp
  vlan-bridge ring)

```

Configure disable dynamic learning

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: disable-dynamic-learning

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-type>vrf</instance-type>
    <config>
      <instance-type>vrf</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </bridge>
  <config>
    </disable-dynamic-learning>
  </config>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```

no bridge <1-32> acquire

```

Configure l2 protocol destination mac

This attribute changes L2 protocol destination MAC

Attribute Name: l2-protocol-destination-mac

Attribute Type: string

Default Value: 0100.C2CD.CDD0

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
        <l2-protocol-destination-mac>XXXX.XXXX.XXXX</l2-protocol-destination-mac>
      <!-- operation="delete"-->
    </config>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> l2protocol encapsulation dest-mac XXXX.XXXX.XXXX
```

Configure dot1ad encapsulation

Configure to use encapsulated dot1ad value for switching and routing by bridge ports

Attribute Name: dot1ad-encapsulation

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
        </dot1ad-encapsulation><!-- operation="delete"-->
      </config>
    </bridge>
  </network-instance>
</network-instances>
```

```

    </config>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> encapsulation dot1ad
```

Configure spanning tree protocol status

Attribute specifies to enable/disable Spanning Tree Protocol on a interface

Attribute Name: spanning-tree-protocol-status

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <bridge-ports>
        <interface>
          <name>WORD</name>
          <config>
            <name>WORD</name>
          </config>
          <spanning-tree-protocol-status>enable</spanning-tree-protocol-status>
        </interface>
      </bridge-ports>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> (spanning-tree (enable|disable) |)
```

Configure disable mac learning

Use this attribute to disable MAC learning on a interface

Attribute Name: disable-mac-learning

Attribute Type: uint8

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <fdb>
        <interfaces>
          <interface>
            <interface-name>IFNAME</interface-name>
            <config>
              <interface-name>WORD</interface-name>
            </config>
            </disable-mac-learning><!-- operation="delete"-->
          </interface>
        </interfaces>
      </fdb>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
no mac-address-table learning bridge <1-32> interface IFNAME
```

Configure interface name

The textual name of the interface

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: action

Attribute Type: enum (discard|forward)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>

```

```

<bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <fdb>
    <static-mac-table>
      <entry>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
        <config>
          <mac-address>XXXX.XXXX.XXXX</mac-address>
          <action>discard</action>
        </config>
        <interface-name>IFNAME</interface-name>
      </entry>
    </static-mac-table>
  </fdb>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME
```

clear mac address-table (multicast) cvlan VID svlan VID bridge <1-32>

Attribute Name: mac-type

Attribute Type: enum (multicast)

Attribute Name: cvlan-id

Attribute Type: uint16

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```

<bridge-clear-provider-edge-mac-address-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bridge">
  <mac-type>multicast</mac-type>
  <cvlan-id>VID</cvlan-id>
  <svlan-id>VID</svlan-id>
  <bridge-id>1</bridge-id>
</bridge-clear-provider-edge-mac-address-table>

```

Command Syntax

```
clear mac address-table (multicast) cvlan VID svlan VID bridge <1-32>
```

clear mac address-table (multicast) (interface IFNAME|) (address MACADDR|) (vlan VID|) bridge <1-32>

Attribute Name: mac-type

Attribute Type: enum (multicast)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<bridge-clear-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <mac-type>multicast</mac-type>
  <interface-name>IFNAME</interface-name>
  <mac-address>MACADDR</mac-address>
  <vlan-id>VID</vlan-id>
  <bridge-id>1</bridge-id>
</bridge-clear-mac-address-table>
```

Command Syntax

```
clear mac address-table (multicast) (interface IFNAME|) (address MACADDR|) (vlan
VID|) bridge <1-32>
```

clear mac address-table dynamic cvlan VID svlan VID bridge <1-32>

Attribute Name: cvlan-id

Attribute Type: uint16

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<bridge-clear-provider-edge-dynamic-mac-address-table xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <cvlan-id>VID</cvlan-id>
  <svlan-id>VID</svlan-id>
  <bridge-id>1</bridge-id>
</bridge-clear-provider-edge-dynamic-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic cvlan VID svlan VID bridge <1-32>
```

clear mac address-table dynamic (interface IFNAME|) (address MACADDR|) (vlan VID|) bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<bridge-clear-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <interface-name>IFNAME</interface-name>
  <mac-address>MACADDR</mac-address>
  <vlan-id>VID</vlan-id>
  <bridge-id>1</bridge-id>
</bridge-clear-dynamic-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic (interface IFNAME|) (address MACADDR|) (vlan VID|)
bridge <1-32>
```

clear mac address-table dynamic interface IFNAME instance INST bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: instance-id

Attribute Type: uint32

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<bridge-clear-mstp-port-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <interface-name>IFNAME</interface-name>
  <instance-id>INST</instance-id>
  <bridge-id>1</bridge-id>
</bridge-clear-mstp-port-dynamic-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic interface IFNAME instance INST bridge <1-32>
```

IPI-VLAN

Configure disable mac learning

Use attribute to disable mac address learning

Attribute Name: disable-mac-learning

Attribute Type: uint8

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
        <vlan>
          <vlan-id>VLAN_RANGE</vlan-id>
          <config>
            <vlan-id>VLAN_RANGE</vlan-id>
            </config>
            </disable-mac-learning><!-- operation="delete"-->
          </vlan>
        </vlans>
      </bridge>
    </network-instance>
  </network-instances>
```

Command Syntax

```
no mac-address-table learning bridge <1-32> vlan VLAN_RANGE
```

Configure vlan id

Vlan identifier

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (customer)

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
        <vlan> <!-- operation="delete"-->
          <vlan-id>VLAN_RANGE</vlan-id>
          <config>
            <vlan-id>VLAN_RANGE</vlan-id>
          </config>
          <customer-vlan>
            <config>
              <type>customer</type>
              <name>WORD</name>
              <state>disable</state>
            </config>
          </customer-vlan>
        </vlan>
      </vlans>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
vlan VLAN_RANGE (type (customer)|) bridge <1-32> (name WORD|) (state
(disable|enable)|)
```

Configure type

Vlan identifier

This command is supported when following feature are enabled Provider Bridging feature

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (point-point|multipoint-multipoint|rooted-multipoint)

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
        <vlan> <!-- operation="delete"-->
          <vlan-id>VLAN_RANGE</vlan-id>
          <config>
            <vlan-id>VLAN_RANGE</vlan-id>
          </config>
          <service-vlan>
            <config>
              <type>point-point</type>
              <state>disable</state>
            </config>
          </service-vlan>
        </vlan>
      </vlans>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
vlan VLAN_RANGE type service (point-point|multipoint-multipoint|rooted-multipoint)
  bridge <1-32> (state (disable|enable)|)
```

Configure instance name

Vlan identifier

This command is supported when following feature are enabled Provider Bridging feature

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (point-point|multipoint-multipoint|rooted-multipoint)

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
      <vlan> <!-- operation="delete"-->
        <vlan-id>VLAN_RANGE</vlan-id>
        <config>
          <vlan-id>VLAN_RANGE</vlan-id>
        </config>
        <service-vlan>
          <config>
            <type>point-point</type>
            <name>WORD</name>
            <state>disable</state>
          </config>
        </service-vlan>
      </vlan>
    </vlans>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
vlan VLAN_RANGE type service (point-point|multipoint-multipoint|rooted-multipoint)
  bridge <1-32> name WORD (state (disable|enable)|)
```

Configure instance type

private vlan type

This command is supported when following feature are enabled PVLAN feature

Attribute Name: type

Attribute Type: enum (community|isolated|primary)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
        <vlan>
          <vlan-id>VLAN_RANGE</vlan-id>
          <config>
            <vlan-id>VLAN_RANGE</vlan-id>
          </config>
          <private-vlan>
            <config>
              <type>community</type>
            </config>
          </private-vlan>
        </vlan>
      </vlans>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
private-vlan <2-4094> (community|isolated|primary) bridge <1-32>
```

Configure secondary vlan

Use this attribute to configure associated secondary vlan for private vlan

This command is supported when following feature are enabled PVLAN feature

Attribute Name: secondary-vlan

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">

```

```

<vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <vlan>
    <vlan-id>VLAN_RANGE</vlan-id>
    <config>
      <vlan-id>VLAN_RANGE</vlan-id>
    </config>
    <private-vlan>
      <association>
        <config>
          <secondary-vlan>VLAN_ID</secondary-vlan> <!-- operation="delete"-->
        </config>
      </association>
    </private-vlan>
  </vlan>
</vlans>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
private-vlan <2-4094> association add VLAN_ID bridge <1-32>
```

Configure mac address

Use this attribute to configure classifier for given MAC address

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```

<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <classifier-rules>
    <classifier-rule>
      <rule-id>1</rule-id>
      <config>
        <rule-id>1</rule-id>
      </config>
    <rule-criteria>
      <config>
        <mac-address>WORD</mac-address> <!-- operation="delete"-->
      </config>
    </rule-criteria>
  </classifier-rule>
</classifier-rules>
</vlan-classifier>

```

Command Syntax

```
vlan classifier rule <1-256> mac WORD
```

Configure ipv4 address

Use this attribute to configure classifier for given IPv4 address

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: ipv4-address

Attribute Type: string

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <classifier-rules>
    <classifier-rule>
      <rule-id>1</rule-id>
      <config>
        <rule-id>1</rule-id>
      </config>
    <rule-criteria>
      <config>
        <ipv4-address>A.B.C.D/M</ipv4-address> <!-- operation="delete"-->
      </config>
    </rule-criteria>
  </classifier-rule>
</classifier-rules>
</vlan-classifier>
```

Command Syntax

```
vlan classifier rule <1-256> ipv4 A.B.C.D/M
```

Configure ether type

Use this attribute to configure classifier for protocols based on Ethertype value

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: ether-type

Attribute Type: union

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <classifier-rules>
    <classifier-rule>
      <rule-id>1</rule-id>
      <config>
        <rule-id>1</rule-id>
      </config>
    <rule-criteria>
      <config>
        <ether-type>VLAN_CLASSIFIER_ETHERTYPE_T</ether-type>
      </config>
    </rule-criteria>
  </classifier-rule>
</classifier-rules>
</vlan-classifier>
```



```

</classifier-rule>
</classifier-rules>
</vlan-classifier>

```

Command Syntax

```

vlan classifier rule <1-256> proto
    (ETHERTYPE|ip|x25|arp|g8bpqx25|ieeepup|ieeeaddrtrans|dec|decnadamload|decnare
    moteconsole|decnارouting|declat|decdiagnostics|rarp|atalkddp|atalkaarp|ipx|ipv6
    |atmmulti|pppdiscovery|pppsession|atmtransport)

```

Configure group id

Classifier group ID

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: group-id

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```

<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <classifier-groups>
    <classifier-group> <!-- operation="delete"-->
      <rule-id>1</rule-id>
      <config>
        <rule-id>1</rule-id>
        <group-id>1</group-id>
      </config>
    </classifier-group>
  </classifier-groups>
</vlan-classifier>

```

Command Syntax

```

vlan classifier group <1-16> add rule <1-256>

```

Configure port name

VLAN classifier group ID

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: group-id

Attribute Type: uint8

Attribute Range: 1-16

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <ports>
    <port> <!-- operation="delete"-->
      <group-id>1</group-id>
      <config>
        <group-id>1</group-id>
        <port-name>WORD</port-name>
        <vlan-id>2</vlan-id>
      </config>
      <port-name>WORD</port-name>
    </port>
  </ports>
</vlan-classifier>
```

Command Syntax

```
vlan classifier activate <1-16> vlan <2-4094>
```

Configure disable vlan classifier feature

Use this command to enable or disable VLAN classifier feature.

Attribute Name: disable-vlan-classifier-feature

Attribute Type: uint8

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <config>
    </disable-vlan-classifier-feature><!-- operation="delete"-->
  </config>
</layer2-global>
```

Command Syntax

```
no feature vlan classifier
```

Configure disable port security

Use this attribute to disable or enable port-security globally.

Attribute Name: disable-port-security

Attribute Type: uint8

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <config>
    </disable-port-security>
  </config>
</layer2-global>
```

Command Syntax

```
port-security disable
```

Configure vlan xlate 1

Use this attribute to set vlan xlate

Attribute Name: vlan-xlate-1

Attribute Type: empty

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
  <config>
    </vlan-xlate-1><!-- operation="delete"-->
  </config>
</layer2-global>
```

Command Syntax

```
vlan-xlate-1 large
```

Configure table name

Use this to configure the name of the CVLAN registration table.

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: table-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
      <cvlan-registration-table> <!-- operation="delete"-->
        <table-name>WORD</table-name>
        <config>
          <table-name>WORD</table-name>
        </config>
      </cvlan-registration-table>
    </cvlan-registration-tables>
  </bridge>
</network-instance>
```

```
</network-instances>
```

Command Syntax

```
cvlan registration table WORD bridge <1-32>
```

Configure svlan id

Service VLAN ID in registration table

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
        <cvlan-registration-table>
          <table-name>WORD</table-name>
          <config>
            <table-name>WORD</table-name>
          </config>
          <cvlan-mappings>
            <cvlan-mapping>
              <cvlan-id>VLAN_RANGE2</cvlan-id>
              <config>
                <cvlan-id>VLAN_RANGE2</cvlan-id>
                <svlan-id>1</svlan-id>
                <translated-cvlan-id>1</translated-cvlan-id>
              </config>
              <svlan-id>1</svlan-id>
            </cvlan-mapping>
          </cvlan-mappings>
        </cvlan-registration-table>
      </cvlan-registration-tables>
    </bridge>
```

```
</network-instance>
</network-instances>
```

Command Syntax

```
cvlan VLAN_RANGE2 cvlan <1-4095> svlan <1-4095>
```

Configure cvlan id

Service VLAN ID in registration table

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
      <cvlan-registration-table>
        <table-name>WORD</table-name>
        <config>
          <table-name>WORD</table-name>
        </config>
        <cvlan-mappings>
          <cvlan-mapping>
            <cvlan-id>VLAN_RANGE2</cvlan-id>
            <config>
              <cvlan-id>VLAN_RANGE2</cvlan-id>
              <svlan-id>1</svlan-id>
            </config>
            <svlan-id>1</svlan-id>
          </cvlan-mapping>
        </cvlan-mappings>
      </cvlan-registration-table>
    </cvlan-registration-tables>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
cvlan VLAN_RANGE2 svlan <1-4095>
```

Configure cos to queue

Name of CoS to queue profile to map to CVLAN ID

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: cos-to-queue

Attribute Type: string

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: remark-cos

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
        <cvlan-registration-table>
          <table-name>WORD</table-name>
          <config>
            <table-name>WORD</table-name>
          </config>
          <cvlan-mappings>
            <cvlan-mapping>
              <cvlan-id>VLAN_RANGE2</cvlan-id>
              <config>
                <cvlan-id>VLAN_RANGE2</cvlan-id>
                <svlan-id>1</svlan-id>
                <translated-cvlan-id>1</translated-cvlan-id>
                </remark-cos>
              </config>
              <svlan-id>1</svlan-id>
              <cos-to-queue>NAME</cos-to-queue>
            </cvlan-mapping>
          </cvlan-mappings>
        </cvlan-registration-table>
```

```

</cvlan-registration-tables>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```

cvlan VLAN_RANGE2 cvlan <1-4095> svlan <1-4095> ({ remark-cos| cos-to-queue NAME
})

```

Configure untagged ep

Customer/provider edge port is untagged for specified CVLAN

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: untagged-ep

Attribute Type: bits (default|untagged-pep|untagged-cep)

Attribute Name: remark-cos

Attribute Type: empty

Attribute Name: cos-to-queue

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
      <cvlan-registration-table>
        <table-name>WORD</table-name>
        <config>
          <table-name>WORD</table-name>
        </config>
        <cvlan-mappings>
          <cvlan-mapping>
            <cvlan-id>VLAN_RANGE2</cvlan-id>
            <config>
              <cvlan-id>VLAN_RANGE2</cvlan-id>
              <svlan-id>1</svlan-id>
              </remark-cos>
              <cos-to-queue>NAME</cos-to-queue>
            </config>
            <svlan-id>1</svlan-id>
          </cvlan-mapping>
        </cvlan-mappings>
      </cvlan-registration-table>
    </cvlan-registration-tables>
  </bridge>
</network-instance>
</network-instances>

```

```

        <untagged-ep>untagged-pep</untagged-ep>
    </cvlan-mapping>
</cvlan-mappings>
</cvlan-registration-table>
</cvlan-registration-tables>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```

cvlan VLAN_RANGE2 svlan <1-4095> ({ remark-cos| cos-to-queue NAME| untagged-
  pep|untagged-cep })

```

IPI-PORT-VLAN

Configure isolated vlan id

Isolated VLAN identifier

Attribute Name: isolated-vlan-id

Attribute Type: string

Attribute Range: 2-4094,2-4094

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <global>
        <config>
          <isolated-vlan-id>2</isolated-vlan-id> <!-- operation="delete"-->
        </config>
      </global>
    </port-vlan>
  </interface>
</interfaces>

```

Command Syntax

```

switchport (provider-network) isolated-vlan WORD

```

Configure cvlan registration table

cvlan registration table

Attribute Name: cvlan-registration-table

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <global>
        <config>
          <cvlan-registration-table>WORD</cvlan-registration-table> <!--
operation="delete"-->
        </config>
      </global>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport (customer-edge) vlan registration WORD
```

Configure interface mode

Set the interface to access or trunk or hybrid mode for VLANs

Attribute Name: interface-mode

Attribute Type: enum (access|hybrid|trunk|customer-network|provider-network|customer-edge access|customer-edge hybrid|customer-edge trunk)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan> <!-- operation="delete"-->
          <interface-mode>access</interface-mode>
          <config>
            <interface-mode>access</interface-mode>
          </config>
        </switched-vlan>
      </switched-vlans>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport mode (access|hybrid|trunk|provider-network|customer-edge
access|customer-edge hybrid|customer-edge trunk)
```

Configure name

Set the interface to access or trunk or hybrid mode for VLANs

Attribute Name: interface-mode

Attribute Type: enum (access|hybrid|trunk|customer-network|provider-network|customer-edge access|customer-edge hybrid|customer-edge trunk)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
      <switched-vlan> <!-- operation="delete"-->
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
      </switched-vlan>
    </switched-vlans>
  </port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport mode (customer-network)
```

Configure acceptable frame type

Use this attribute to set the interface acceptable frame types. This processing occurs after VLAN classification

Attribute Name: acceptable-frame-type

Attribute Type: enum (vlan-tagged|all)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
```

```

    <switched-vlans>
    <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
        <interface-mode>access</interface-mode>
      </config>
      <acceptable-frame-type>all</acceptable-frame-type> <!--
operation="delete"-->
    </switched-vlan>
  </switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport mode (hybrid) acceptable-frame-type (vlan-tagged|all)
```

Configure switched-vlan acceptable-frame-type

Use this attribute to set the interface acceptable frame types. This processing occurs after VLAN classification

Attribute Name: acceptable-frame-type

Attribute Type: enum (vlan-tagged|all)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <switched-vlans>
  <switched-vlan>
    <interface-mode>access</interface-mode>
    <config>
      <interface-mode>access</interface-mode>
    </config>
    <acceptable-frame-type>all</acceptable-frame-type> <!--
operation="delete"-->
  </switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport mode (customer-edge hybrid) acceptable-frame-type (vlan-tagged|all)
```

Configure disable native vlan

Use this attribute to disable native VLAN for the port. Untagged frames will be dropped.

Attribute Name: disable-native-vlan

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
            <interface-mode>access</interface-mode>
          </config>
          </disable-native-vlan><!-- operation="delete"-->
        </switched-vlan>
      </switched-vlans>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport mode (trunk) disable-native-vlan
```

Configure remove default vlan

Use this attribute to remove default VLAN for the port. Untagged frames will be dropped.

Attribute Name: remove-default-vlan

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
```

```

        <interface-mode>access</interface-mode>
    </config>
    </remove-default-vlan><!-- operation="delete"-->
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport mode (trunk) remove-default-vlan
```

Configure vlan id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
    <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
            <interface-mode>access</interface-mode>
        </config>
        <vlans>
        <config>
            <vlan-id>2</vlan-id> <!-- operation="delete"-->
        </config>
        </vlans>
    </switched-vlan>
    </switched-vlans>
    </port-vlan>
    </interface>
</interfaces>

```

Command Syntax

```
switchport (access|hybrid) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <switched-vlans>
  <switched-vlan>
    <interface-mode>access</interface-mode>
    <config>
      <interface-mode>access</interface-mode>
    </config>
    <vlans>
    <config>
      <vlan-id>2</vlan-id> <!-- operation="delete"-->
    </config>
    </vlans>
  </switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (customer-network) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <switched-vlans>
  <switched-vlan>
    <interface-mode>access</interface-mode>
    <config>
```

```

        <interface-mode>access</interface-mode>
    </config>
    <vlans>
    <config>
        <vlan-id>2</vlan-id> <!-- operation="delete"-->
    </config>
    </vlans>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport (customer-edge access) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
    <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
            <interface-mode>access</interface-mode>
        </config>
        <vlans>
        <config>
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
        </vlans>
    </switched-vlan>
    </switched-vlans>
    </port-vlan>
    </interface>
</interfaces>

```

Command Syntax

```
switchport (customer-edge hybrid) vlan <1-4094>
```

Configure native vlan id

Native VLAN ID

Attribute Name: native-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
            <interface-mode>access</interface-mode>
          </config>
          <vlans>
            <config>
              <native-vlan-id>2</native-vlan-id> <!-- operation="delete"-->
            </config>
          </vlans>
        </switched-vlan>
      </switched-vlans>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport (trunk) native vlan <2-4094>
```

Configure translated svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
  </interface>
</interfaces>
```



```

<port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <switched-vlans>
    <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
        <interface-mode>access</interface-mode>
      </config>
      <svlan-translations>
        <svlan-translation>
          <original-svlan-id>VLAN_ID</original-svlan-id>
          <config>
            <original-svlan-id>VLAN_ID</original-svlan-id>
          </config>
          <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
        </svlan-translation>
      </svlan-translations>
    </switched-vlan>
  </switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport (provider-network) vlan translation svlan VLAN_ID svlan VLAN_ID
```

Configure original svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
            <interface-mode>access</interface-mode>
          </config>
          <svlan-translations>
            <svlan-translation>

```

```

        <original-svlan-id>VLAN_ID</original-svlan-id>
        <config>
            <original-svlan-id>VLAN_ID</original-svlan-id>
        </config>
        <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
    </svlan-translation>
</svlan-translations>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport (customer-network) vlan translation svlan VLAN_ID svlan VLAN_ID
```

Configure translated cvlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
    <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
            <interface-mode>access</interface-mode>
        </config>
        <svlan-translations>
        <svlan-translation>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <config>
                <original-svlan-id>VLAN_ID</original-svlan-id>
                <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>

```

```

        </config>
        <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
    </svlan-translation>
</svlan-translations>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```

switchport (provider-network) vlan translation svlan VLAN_ID cvlan <1-4095> svlan
VLAN_ID

```

Configure svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
<switched-vlans>
<switched-vlan>
    <interface-mode>access</interface-mode>
    <config>
        <interface-mode>access</interface-mode>
    </config>
    <svlan-translations>
    <svlan-translation>
        <original-svlan-id>VLAN_ID</original-svlan-id>
        <config>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>
        </config>

```

```

        <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
    </svlan-translation>
</svlan-translations>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```

switchport (customer-network) vlan translation svlan VLAN_ID cvlan <1-4095> svlan
VLAN_ID

```

Configure cvlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
    <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
            <interface-mode>access</interface-mode>
        </config>
        <cvlan-svlan-translations>
        <cvlan-svlan-translation>
            <svlan-id>1</svlan-id>
            <config>
                <svlan-id>1</svlan-id>
                <cvlan-id>1</cvlan-id>
            </config>
            <cvlan-id>1</cvlan-id>
            <translated-svlan-id>1</translated-svlan-id>
        </cvlan-svlan-translation>
        </cvlan-svlan-translations>
    </switched-vlan>
    </switched-vlans>
    </port-vlan>
    </interface>
</interfaces>

```

```

</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```

switchport (provider-network) vlan translation cvlan <1-4095> svlan <1-4095> svlan
<1-4095>

```

Configure svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
      <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
        <cvlan-svlan-translations>
          <cvlan-svlan-translation>
            <svlan-id>1</svlan-id>
            <config>
              <svlan-id>1</svlan-id>
              <cvlan-id>1</cvlan-id>
            </config>
            <cvlan-id>1</cvlan-id>
            <translated-svlan-id>1</translated-svlan-id>
          </cvlan-svlan-translation>
        </cvlan-svlan-translations>
      </switched-vlan>
    </switched-vlans>
  </port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport (customer-network) vlan translation cvlan <1-4095> svlan <1-4095> svlan
<1-4095>
```

Configure cvlan-svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
<switched-vlans>
<switched-vlan>
  <interface-mode>access</interface-mode>
  <config>
    <interface-mode>access</interface-mode>
  </config>
  <cvlan-svlan-translations>
  <cvlan-svlan-translation>
    <svlan-id>1</svlan-id>
    <config>
      <svlan-id>1</svlan-id>
      <cvlan-id>1</cvlan-id>
      <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"-->
    </config>
    <cvlan-id>1</cvlan-id>
    <translated-svlan-id>1</translated-svlan-id> <!-- operation="delete"-->
  </cvlan-svlan-translation>
</cvlan-svlan-translations>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
```

```
</interfaces>
```

Command Syntax

```
switchport (provider-network) vlan translation cvlan <1-4095> svlan <1-4095> cvlan
<1-4095> svlan <1-4095>
```

Configure cvlan-svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
        <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
            <interface-mode>access</interface-mode>
          </config>
          <cvlan-svlan-translations>
            <cvlan-svlan-translation>
              <svlan-id>1</svlan-id>
              <config>
                <svlan-id>1</svlan-id>
                <cvlan-id>1</cvlan-id>
                <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"-->
              </config>
            </cvlan-svlan-translation>
          </cvlan-svlan-translations>
        </switched-vlan>
      </switched-vlans>
    </port-vlan>
  </interface>
</interfaces>
```

```
</interface>
</interfaces>
```

Command Syntax

```
switchport (customer-network) vlan translation cvlan <1-4095> svlan <1-4095> cvlan
<1-4095> svlan <1-4095>
```

Configure logging

port security logging

Attribute Name: logging

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
    <config>
      </logging><!-- operation="delete"-->
    </config>
  </port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security logging enable
```

Configure mode

port security mode type

Attribute Name: mode

Attribute Type: enum (static|default)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
```



```

    <config>
      <mode>2</mode>
    </config>
  </port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security
```

Configure port-security mode

port security mode type

Attribute Name: mode

Attribute Type: enum (static|default)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <port-security>
        <config>
          <mode>static</mode>
        </config>
      </port-security>
    </port-vlan>
  </interface>
</interfaces>

```

Command Syntax

```
switchport port-security (static)
```

Configure maximum limit

Maximum limit for port security

Attribute Name: maximum-limit

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1000

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">

```

```

<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
  <config>
    <maximum-limit>1</maximum-limit> <!-- operation="delete"-->
  </config>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security maximum <1-1000>
```

Configure mac address

Use this attribute to configure the static forwarding entry for port-security

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
  <secure-mac>
  <default-vlan-mappings>
  <default-vlan-mapping> <!-- operation="delete"-->
    <mac-address>XXXX.XXXX.XXXX</mac-address>
  <config>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
  </config>
  </default-vlan-mapping>
</default-vlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX
```

Configure vlan-mapping cvlan-id

Use this attribute to configure the port-security with static forwarding entry and CVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: cvlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
  <secure-mac>
  <vlan-mappings>
  <vlan-mapping>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
    <config>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <cvlan-id>2</cvlan-id> <!-- operation="delete"-->
  </vlan-mapping>
</vlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX vlanId <2-4094>
```

Configure vlan-mapping svlan-id

Use this attribute to configure the port-security with static forwarding entry and SVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```

<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
  <secure-mac>
  <vlan-mappings>
  <vlan-mapping>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
    <config>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <svlan-id>2</svlan-id> <!-- operation="delete"-->
  </vlan-mapping>
</vlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX svlanId <2-4094>
```

Configure cvlan-svlan-mappings svlan-id

Use this attribute to configure the port-security with static forwarding entry and SVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <port-security>
  <secure-mac>
  <cvlan-svlan-mappings>
  <cvlan-svlan-mapping> <!-- operation="delete"-->
    <svlan-id>2</svlan-id>
    <config>
      <svlan-id>2</svlan-id>
      <cvlan-id>2</cvlan-id>
    </config>
  </cvlan-svlan-mapping>
  </cvlan-svlan-mappings>
  </secure-mac>
  </port-security>
  </port-vlan>
</interface>
</interfaces>

```

```

        <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <cvlan-id>2</cvlan-id>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
</cvlan-svlan-mapping>
</cvlan-svlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX vlanId <2-4094> svlanId <2-4094>
```

Configure private-vlan mode

Use this attribute to make a layer2 port as a host port or promiscuous port or pvlan-trunk port

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: mode

Attribute Type: enum (host|promiscuous|trunk)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <private-vlan>
        <config>
          <mode>host</mode>
        </config>
      </private-vlan>
    </port-vlan>
  </interface>
</interfaces>

```

Command Syntax

```
switchport mode private-vlan (host|promiscuous|trunk)
```

Configure associate vlan id

Private VLAN Association

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: associate-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <private-vlan>
      <associations>
        <association>
          <vlan-id>2</vlan-id>
          <config>
            <vlan-id>2</vlan-id>
          </config>
          <associate-vlan-id>2</associate-vlan-id>
        </association>
      </associations>
    </private-vlan>
  </port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport private-vlan host-association <2-4094> add <2-4094>
```

Configure mapping vlan id

Primary vlan identifier

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: mapping-vlan-id

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <private-vlan>
```

```

    <associations>
    <association> <!-- operation="delete"-->
      <vlan-id>2</vlan-id>
      <config>
        <vlan-id>2</vlan-id>
        <mapping-vlan-id>VLAN_ID</mapping-vlan-id>
      </config>
    </association>
  </associations>
</private-vlan>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport private-vlan mapping <2-4094> add VLAN_ID
```

Configure association trunk vlan id

private-vlan Mapping

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: association-trunk-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
  <private-vlan>
  <associations>
  <association>
    <vlan-id>2</vlan-id>
    <config>
      <vlan-id>2</vlan-id>
    </config>
    <association-trunk-vlan-id>2</association-trunk-vlan-id>
  </association>
  </associations>
  </private-vlan>
  </port-vlan>
  </interface>
</interfaces>

```

Command Syntax

```
switchport private-vlan association-trunk <2-4094> <2-4094>
```

Configure instance name

Specifies service VLAN identifier for static MAC entry

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: action

Attribute Type: enum (discard|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlan-static-fdb xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
        <entries>
          <entry>
            <vlan-id>2</vlan-id>
            <config>
              <vlan-id>2</vlan-id>
              <mac-address>XXXX.XXXX.XXXX</mac-address>
              <action>discard</action>
              <interface-name>IFNAME</interface-name>
            </config>
            <mac-address>XXXX.XXXX.XXXX</mac-address>
            <svlan-id>2</svlan-id>
          </entry>
        </entries>
      </vlan-static-fdb>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094> svlan
<2-4094>
```


Configure instance type

Specifies VLAN identifier for static MAC entry in case of provider-network VLAN will be considered as service VLAN

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: action

Attribute Type: enum (discard|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <vlan-static-fdb xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <entries>
        <entry>
          <vlan-id>2</vlan-id>
          <config>
            <vlan-id>2</vlan-id>
            <mac-address>XXXX.XXXX.XXXX</mac-address>
            <action>discard</action>
            <interface-name>IFNAME</interface-name>
          </config>
          <mac-address>XXXX.XXXX.XXXX</mac-address>
        </entry>
      </entries>
    </vlan-static-fdb>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094>
```

IPI-XSTP

Configure ageing time

Use this attribute to specify the aging-out time for a learned MAC address. The learned MAC address persists until this specified time. Setting value to 0 would disable ageing of the bridge.

Attribute Name: ageing-time

Attribute Type: union

Default Value: 300

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          <ageing-time>300</ageing-time> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> ageing disable
```

Configure instance name

Use this attribute to specify the aging-out time for a learned MAC address. The learned MAC address persists until this specified time. Setting value to 0 would disable ageing of the bridge.

Attribute Name: ageing-time

Attribute Type: union

Default Value: 300

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
```

```

<config>
  <instance-name>WORD</instance-name>
  <instance-type>l2ni</instance-type>
</config>
  <instance-type>l2ni</instance-type>
<bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
    <config>
      <ageing-time>300</ageing-time> <!-- operation="delete"-->
    </config>
  </stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> ageing-time (0|<10-572>)
```

Configure enable cisco interoperability

Use this attribute to enable/disable Cisco interoperability for MSTP (Multiple Spanning Tree Protocol). If Cisco interoperability is required, all devices in the switched LAN must be Cisco-interoperability enabled. When router interoperates with Cisco, the only criteria used to classify a region are the region name and revision level. VLAN-to-instance mapping is not used to classify regions when interoperating with Cisco.

Attribute Name: enable-cisco-interoperability

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          </enable-cisco-interoperability><!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> cisco-interoperability enable
```

Configure forwarding delay

Use this attribute to set the time (in seconds) after which (if this bridge is the root bridge) each port changes states to learning and forwarding. This value is used by all instances

Attribute Name: forwarding-delay

Attribute Type: uint8

Default Value: 15

Attribute Range: 4-30

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          <forwarding-delay>4</forwarding-delay> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> forward-time <4-30>
```

Configure hello time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the bridges in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to excessive traffic on the network, while a higher value delays the detection of topology change. This value is used by all instances. Configure the bridge instance name before using this attribute. The allowable range of values is 1-10 seconds. However, make sure that the value of hello time is always greater than the value of hold time (2 seconds by default)

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          <hello-time>1</hello-time> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> hello-time <1-10>
```

Configure max age

Use this attribute to set the maximum age for a bridge. This value is used by all instances. Maximum age is the maximum time in seconds for which (if a bridge is the root bridge) a message is considered valid. This prevents the frames from looping indefinitely. The value of maximum age should be greater than twice the value of hello time plus 1, but less than twice the value of forward delay minus 1. The allowable range for max-age is 6-40 seconds. Configure this value sufficiently high, so that a frame generated by root can be propagated to the leaf nodes without exceeding the maximum age.

Attribute Name: max-age

Attribute Type: uint8

Default Value: 20

Attribute Range: 6-40

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>

```

```

        <max-age>6</max-age> <!-- operation="delete"-->
    </config>
</stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> max-age <6-40>
```

Configure max hops

Use this attribute to specify the maximum allowed hops for a BPDU in an MST region. This parameter is used by all the instances of the MST. Specifying the maximum hops for a BPDU prevents the messages from looping indefinitely in the network. When a bridge receives an MST BPDU that has exceeded the allowed maximum hops, it discards the BPDU.

Attribute Name: max-hops

Attribute Type: uint8

Default Value: 20

Attribute Range: 1-40

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          <max-hops>l</max-hops> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> max-hops <1-40>
```

Configure bridge priority

Use this attribute to set the bridge priority for the common instance. Using a lower priority indicates a greater likelihood of the bridge becoming root. The priority values can be set only in increments of 4096.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
          <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> priority <0-61440>
```

Configure transmit hold count

Use this attribute to set the maximum number of transmissions of BPDUs by the transmit state machine

Attribute Name: transmit-hold-count

Attribute Type: uint8

Default Value: 6

Attribute Range: 1-10

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <config>
```

```

        <transmit-hold-count>1</transmit-hold-count> <!-- operation="delete"-->
    >
        </config>
    </stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> transmit-holdcount <1-10>
```

Configure enable bpdu filter

All ports that have their BPDU filter set to default take the same value of BPDU filter as that of the bridge. The Spanning Tree Protocol sends BPDUs from all ports. Enabling the BPDU Filter feature ensures that PortFast-enabled ports do not transmit or receive any BPDUs.

Attribute Name: enable-bpdu-filter

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <global>
          <config>
            </enable-bpdu-filter><!-- operation="delete"-->
          </config>
        </global>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> spanning-tree portfast bpdu-filter
```

Configure enable bpdu guard

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge

Attribute Name: enable-bpdu-guard

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <global>
          <config>
            </enable-bpdu-guard><!-- operation="delete"-->
          </config>
        </global>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> spanning-tree portfast bpdu-guard
```

Configure enable error disable timeout

Use this attribute to enable the error-disable-timeout facility, which sets a timeout for ports that are disabled due to the BPDU guard feature. The BPDU guard feature shuts down the port on receiving a BPDU on a BPDU-guard enabled port. This attribute associates a timer with the feature such that the port gets enabled back without manual intervention after a set interval.

Attribute Name: enable-error-disable-timeout

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <global>
          <config>
            </enable-error-disable-timeout><!-- operation="delete"-->
          </config>
        </global>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

```

    </global>
</stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> spanning-tree errdisable-timeout enable
```

Configure force version

Use this attribute to set the version for the bridge. A version identifier of less than a value of 2 enforces the spanning tree protocol. Although the attribute supports an input range of 0-4, for RSTP, the valid range is 0-2. When the force-version is set for a bridge, all ports of the bridge have the same spanning tree version set.

Attribute Name: force-version

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-4

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <global>
          <config>
            <force-version>0</force-version> <!-- operation="delete"-->
          </config>
        </global>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> spanning-tree force-version <0-4>
```

Configure path cost method

Use this attribute to set a spanning-tree path cost method. If the short parameter is used, the switch uses a value for the default path cost a number in the range 1 through 65,535. If the long parameter is used, the switch uses a value for the default path cost a number in the range 1 through 200,000,000.

Attribute Name: path-cost-method

Attribute Type: enum (short|long|default)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <global>
          <config>
            <path-cost-method>default</path-cost-method> <!-- operation="delete"-->
          </config>
        </global>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> spanning-tree pathcost method (short|long)
```

Configure bridge type

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>

```

Command Syntax

```
no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree) enable
```

Configure disable spanning tree

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>

```

```

    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  <stp>
  <global>
  <bridge-admins>
  <bridge-admin>
    <bridge-type>spanning-tree</bridge-type>
    </disable-spanning-tree>
    <config>
      <bridge-forwarding>bridge-blocked</bridge-forwarding>
    </config>
  </bridge-admin>
</bridge-admins>
</global>
</stp>
</network-instance>
</network-instances>

```

Command Syntax

```
no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree) enable (bridge-
blocked|bridge-forward)
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>

```

```

<stp>
<global>
<bridge-admins>
<bridge-admin>
  <bridge-type>spanning-tree</bridge-type>
  </disable-spanning-tree>
</bridge-admin>
</bridge-admins>
</global>
</stp>
</network-instance>
</network-instances>

```

Command Syntax

```
no bridge <1-32> spanning-tree enable
```

Configure bridge forwarding

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>
<stp>
<global>
<bridge-admins>
<bridge-admin>
  <bridge-type>spanning-tree</bridge-type>

```

```

    </disable-spanning-tree>
    <config>
      <bridge-forwarding>bridge-blocked</bridge-forwarding>
    </config>
  </bridge-admin>
</bridge-admins>
</global>
</stp>
</network-instance>
</network-instances>

```

Command Syntax

```
no bridge <1-32> spanning-tree enable (bridge-blocked|bridge-forward)
```

Configure enable shutdown

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: enable-shutdown

Attribute Type: uint8

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge shutdown <1-32>
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: enable-shutdown

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  <stp>
  <global>
  <bridge-shutdowns>
  <bridge-shutdown>
    </enable-shutdown>
    <config>
      <bridge-forwarding>bridge-blocked</bridge-forwarding>
    </config>
  </bridge-shutdown>
</bridge-shutdowns>
</global>
</stp>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge shutdown <1-32> (bridge-blocked|bridge-forward)
```

Configure region name

Use this attribute to create an MST region and specify its name. MST bridges of a region form different spanning trees for different VLANs.

Attribute Name: region-name

Attribute Type: string

Default Value: Default

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <mstp>
          <config>
            <region-name>REGION_NAME</region-name> <!-- operation="delete"-->
          </config>
        </mstp>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> region REGION_NAME
```

Configure revision number

Use this attribute to specify the number for configuration information.

Attribute Name: revision-number

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">

```

```

    <mstp>
    <config>
        <revision-number>0</revision-number> <!-- operation="delete"-->
    </config>
</mstp>
</stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> revision <0-65535>
```

Configure vlan id

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge. The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified, the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <mstp>
          <mst-instances>
            <te-mst-instance>
              <config>
                <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
              </config>
            </te-mst-instance>
          </mst-instances>
        </mstp>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> te-msti vlan VLAN_RANGE
```

Configure disable spanning tree

Use this attribute to diasble spanning tree for TE MSTI instance

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <mstp>
          <mst-instances>
            <te-mst-instance>
              <config>
                </disable-spanning-tree><!-- operation="delete"-->
              </config>
            </te-mst-instance>
          </mst-instances>
        </mstp>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
no bridge <1-32> te-msti
```

Configure name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
```

```

    <instance-type>l2ni</instance-type>
  </config>
  <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <te-mst-instance>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </te-mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> instance te-msti
```

Configure instance id

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: instance-id

Attribute Type: union

Netconf edit-config payload

```

  <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
        <instance-type>l2ni</instance-type>
        <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
    <stp>

```

```

<mstp>
<mst-instances>
<mst-instance>
  <instance-id>MSTP_INSTANCE_T</instance-id>
</mst-instance>
</mst-instances>
</mstp>
</stp>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> instance <1-63>
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: instance-id

Attribute Type: uint16

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>l2ni</instance-type>
    <config>
      <instance-type>l2ni</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> instance <1-62>
```

Configure instance type

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge. The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified, the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> instance <1-63> vlan VLAN_RANGE
```

Configure instance id

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge. The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified, the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <mstp>
          <mst-instances>
            <mst-instance>
              <instance-id>MSTP_INSTANCE_T</instance-id>
              <config>
                <instance-id>MSTP_INSTANCE_T</instance-id>
              </config>
              <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
            </mst-instance>
          </mst-instances>
        </mstp>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> instance <1-62> vlan VLAN_RANGE
```

Configure mst-instance bridge-priority

Use this attribute to set the bridge instance priority.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>

```

```

<bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
    <mstp>
      <mst-instances>
        <mst-instance>
          <instance-id>MSTP_INSTANCE_T</instance-id>
          <config>
            <instance-id>MSTP_INSTANCE_T</instance-id>
          </config>
          <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
        </mst-instance>
      </mst-instances>
    </mstp>
  </stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> instance <1-63> priority <0-61440>
```

Configure mst-instance bridge-priority

Use this attribute to set the bridge instance priority.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>

```



```

        </mst-instance>
    </mst-instances>
</mstp>
</stp>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> instance <1-62> priority <0-61440>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>

```

```
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-63>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-62>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>4092</instance-id>
            <config>
              <instance-id>4092</instance-id>
            </config>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance spbm
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>l</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>4093</instance-id>
            <config>
              <instance-id>4093</instance-id>
            </config>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance spbv
```

Configure path cost

Use this attribute to set a path cost for a multiple spanning tree instance. Before using this attribute, you must explicitly add an MST instance to a port using the bridge-group instance attribute.

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface>
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
                <path-cost>1</path-cost> <!-- operation="delete"-->
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> instance <1-63> path-cost <1-200000000>
```

Configure interface path-cost

Use this attribute to set a path cost for a multiple spanning tree instance. Before using this attribute, you must explicitly add an MST instance to a port using the bridge-group instance attribute.

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface>
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
                <path-cost>1</path-cost> <!-- operation="delete"-->
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> instance <1-62> path-cost <1-200000000>
```

Configure port priority

Use this attribute to set the bridge instance priority. The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface>
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
                <port-priority>0</port-priority> <!-- operation="delete"-->
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </mstp>
    </stp>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> instance <1-63> priority <0-240>
```

Configure interface port-priority

Use this attribute to set the bridge instance priority. The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
  <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
        <mst-instances>
          <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
              <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
              <interface>
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
                <port-priority>0</port-priority> <!-- operation="delete"-->
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </stp>
    </bridge>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-62> priority <0-240>
```

Configure port-bridge path-cost

Use this attribute to set the cost of a path. Before you can use this attribute to set a path-cost in a VLAN configuration, you must explicitly add an MST instance to a port using the bridge-group instance attribute..

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
    </config>
    <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <bridge-ports>
        <interface>
          <name>WORD</name>
          <config>
            <name>WORD</name>
          </config>
          <mstp-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
            <port-bridge>
              <config>
                <path-cost>1</path-cost> <!-- operation="delete"-->
              </config>
            </port-bridge>
          </mstp-port>
        </interface>
      </bridge-ports>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> path-cost <1-200000000>
```

Configure port-bridge port-priority

Use this attribute to set the port priority for a bridge group. The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>1</instance-name>

```

```

<config>
  <instance-name>WORD</instance-name>
  <instance-type>l2ni</instance-type>
</config>
  <instance-type>l2ni</instance-type>
<bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
  <bridge-ports>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mstp-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <port-bridge>
          <config>
            <port-priority>0</port-priority> <!-- operation="delete"-->
          </config>
        </port-bridge>
      </mstp-port>
    </interface>
  </bridge-ports>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> priority <0-240>
```

Configure interface hello-time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the default bridges in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to excessive traffic on the network, while a higher value delays the detection of topology change. This value is used by all instances.

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <hello-time>1</hello-time> <!-- operation="delete"-->
    </interface>
  </interfaces>
</xstp>

```

```
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree hello-time <1-10>
```

Configure port configuration

Use this attribute to set a port as an edge-port and to enable rapid transitions.

Attribute Name: port-configuration

Attribute Type: enum (edgeport|portfast)

Default Value: portfast

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <port-configuration>portfast</port-configuration> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree (edgeport|portfast)
```

Configure enable automatic edge detection

Use this attribute to enable automatic edge detection.

Attribute Name: enable-automatic-edge-detection

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </enable-automatic-edge-detection><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree autoedge
```

Configure bpdu guard

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge. When the BPDU guard feature is set for a bridge, all portfast-enabled ports of the bridge that have the BPDU guard set to default shut down the port on receiving a BPDU. In this case, the BPDU is not processed. You can configure the errdisable-timeout feature to enable the port after the specified time interval.

Attribute Name: bpdu-guard

Attribute Type: enum (enable|disable|default)

Default Value: default

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <bpdu-guard>default</bpdu-guard> <!-- operation="delete"-->
    </interface>
  </interfaces>
</xstp>
```

Command Syntax

```
spanning-tree bpdu-guard (enable|disable|default)
```

Configure bpdu filter

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge. All ports that have their BPDU filter set to default take the same value of BPDU filter as that of the bridge. The Spanning Tree Protocol sends BPDUs from all ports. Enabling the BPDU Filter feature ensures that PortFast-enabled ports do not transmit or receive any BPDUs.

Attribute Name: bpdu-filter

Attribute Type: enum (enable|disable|default)

Default Value: default

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</xstp>
```

```

    <bpdu-filter>default</bpdu-filter> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree bpdu-filter (enable|disable|default)
```

Configure enable root guard

Use this attribute to enable the root guard feature for the port. This feature disables reception of superior BPDUs. The root guard feature makes sure that the port on which it is enabled is a designated port. If the root guard enabled port receives a superior BPDU, it goes to a Listening state (for STP) or discarding state (for RSTP and MSTP).

Attribute Name: enable-root-guard

Attribute Type: empty

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    </enable-root-guard><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree guard root
```

Configure link type

Use this attribute to enable or disable point-to-point or shared link types. RSTP has a backward-compatible STP, spanning-tree link-type shared. An alternative is the spanning-tree force-version 0

Attribute Name: link-type

Attribute Type: enum (shared|point-to-point|auto)

Default Value: point-to-point

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>

```

```

    <link-type>point-to-point</link-type> <!-- operation="delete"-->
  </interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree link-type (shared|point-to-point|auto)
```

Configure enable restricted domain role

Use this attribute to set the restricted-domain-role value of the port to TRUE.

Attribute Name: enable-restricted-domain-role

Attribute Type: empty

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-restricted-domain-role><!-- operation="delete"-->
    </interface>
  </interfaces>
</xstp>

```

Command Syntax

```
spanning-tree restricted-domain-role
```

Configure enable restricted role

Use this attribute to set the restricted-role value of the port to TRUE

Attribute Name: enable-restricted-role

Attribute Type: empty

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-restricted-role><!-- operation="delete"-->
    </interface>
  </interfaces>
</xstp>

```

Command Syntax

spanning-tree restricted-role

Configure enable restricted tcn

Use this attribute to set the restricted TCN value of the port to TRUE

Attribute Name: enable-restricted-tcn

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-restricted-tcn><!-- operation="delete"-->
    </interface>
  </interfaces>
</xstp>
```

Command Syntax

spanning-tree restricted-tcn

Configure enable instance restricted tcn

Use this attribute to set the restricted TCN value for the instance to TRUE

Attribute Name: enable-instance-restricted-tcn

Attribute Type: uint8

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mstp>
      <mst-instances>
        <mst-instance>
          <instance-id>MSTP_INSTANCE_T</instance-id>
          <config>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            </enable-instance-restricted-tcn><!-- operation="delete"-->
          </config>
        </mst-instance>
      </mst-instances>
    </mstp>
  </interfaces>
</xstp>
```

```

</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree instance <1-63> restricted-tcn
```

Configure mst-instance enable-instance-restricted-tcn

Use this attribute to set the restricted TCN value for the instance to TRUE

Attribute Name: enable-instance-restricted-tcn

Attribute Type: uint8

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</mstp>
<mst-instances>
<mst-instance>
  <instance-id>MSTP_INSTANCE_T</instance-id>
  <config>
    <instance-id>MSTP_INSTANCE_T</instance-id>
    </enable-instance-restricted-tcn><!-- operation="delete"-->
  </config>
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree instance <1-62> restricted-tcn
```

Configure enable instance restricted role

Use this attribute to set the restricted role value for the instance to TRUE

Attribute Name: enable-instance-restricted-role

Attribute Type: uint8

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</mstp>
<mst-instances>
<mst-instance>
  <instance-id>MSTP_INSTANCE_T</instance-id>
  <config>
    <instance-id>MSTP_INSTANCE_T</instance-id>
  </config>
  </enable-instance-restricted-role><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree instance <1-63> restricted-role
```

Configure mst-instance enable-instance-restricted-role

Use this attribute to set the restricted role value for the instance to TRUE

Attribute Name: enable-instance-restricted-role

Attribute Type: uint8

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</mstp>
<mst-instances>
<mst-instance>
  <instance-id>MSTP_INSTANCE_T</instance-id>
  <config>
    <instance-id>MSTP_INSTANCE_T</instance-id>
  </config>
  </enable-instance-restricted-role><!-- operation="delete"-->
</mst-instance>

```

```

</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree instance <1-62> restricted-role
```

Configure customer-spanning-tree bridge-priority

Use this attribute to set the bridge priority for the common instance. Using a lower priority indicates a greater likelihood of the bridge becoming root. The priority values can be set only in increments of 4096.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: bridge-priority

Attribute Type: uint16

Default Value: 61440

Attribute Range: 0-61440

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
      <config>
        <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
      </config>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>

```

Command Syntax

```
customer-spanning-tree priority <0-61440>
```

Configure customer-spanning-tree max-age

Use this attribute to set the maximum age for a bridge. This value is used by all instances. Maximum age is the maximum time in seconds for which (if a bridge is the root bridge) a message is considered valid. This prevents the frames from looping indefinitely. The value of maximum age should be greater than twice the value of hello time plus 1, but less than twice the value of forward delay minus 1. The allowable range for max-age is 6-40 seconds. Configure this value sufficiently high, so that a frame generated by root can be propagated to the leaf nodes without exceeding the maximum age.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: max-age

Attribute Type: uint8

Default Value: 20

Attribute Range: 6-40

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
      <config>
        <max-age>6</max-age> <!-- operation="delete"-->
      </config>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>

```

Command Syntax

```
customer-spanning-tree max-age <6-40>
```

Configure customer-spanning-tree hello-time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the bridges in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to excessive traffic on the network, while a higher value delays the detection of topology change. This value is used by all instances. Configure the bridge instance name before using this attribute. The allowable range of values is 1-10 seconds. However, make sure that the value of hello time is always greater than the value of hold time (2 seconds by default)

This command is supported when following feature are enabled provider bridge feature

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>

```

```

<config>
  <hello-time>1</hello-time> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
customer-spanning-tree hello-time <1-10>
```

Configure forward delay

Use this attribute to set the time (in seconds) after which (if this bridge is the root bridge) each port changes states to learning and forwarding. This value is used by all instances

This command is supported when following feature are enabled provider bridge feature

Attribute Name: forward-delay

Attribute Type: uint8

Default Value: 15

Attribute Range: 4-30

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
      <config>
        <forward-delay>4</forward-delay> <!-- operation="delete"-->
      </config>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>

```

Command Syntax

```
customer-spanning-tree forward-time <4-30>
```

Configure customer-spanning-tree transmit-hold-count

Use this attribute to set the maximum number of transmissions of BPDUs by the transmit state machine

This command is supported when following feature are enabled provider bridge feature

Attribute Name: transmit-hold-count

Attribute Type: uint8

Default Value: 6

Attribute Range: 1-10

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
      <config>
        <transmit-hold-count>1</transmit-hold-count> <!-- operation="delete"-->
      </config>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree transmit-holdcount <1-10>
```

Configure customer-edge path-cost

Use this attribute to set the bridge path cost.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-200000000

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
      <customer-edge>
        <config>
          <path-cost>1</path-cost> <!-- operation="delete"-->
        </config>
      </customer-edge>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>
```

```
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree customer-edge path-cost <1-200000000>
```

Configure customer-edge port-priority

Use this attribute to set the port instance priority.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: port-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
    <customer-edge>
    <config>
      <port-priority>0</port-priority> <!-- operation="delete"-->
    </config>
    </customer-edge>
    </customer-spanning-tree>
  </interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree customer-edge priority <0-240>
```

Configure svlan id

Use this attribute to set the bridge path cost.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-200000000

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
    <provider-edge>
    <vlans>
    <vlan>
      <svlan-id>0</svlan-id>
      <config>
        <svlan-id>2</svlan-id>
      </config>
      <path-cost>1</path-cost> <!-- operation="delete"-->
    </vlan>
  </vlans>
</provider-edge>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree provider-edge vlan <2-4094> path-cost <1-200000000>
```

Configure vlan port-priority

Use this attribute to set the port instance priority.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: port-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <customer-spanning-tree>
```

```

<provider-edge>
<vlans>
<vlan>
  <svlan-id>0</svlan-id>
  <config>
    <svlan-id>2</svlan-id>
  </config>
  <port-priority>0</port-priority> <!-- operation="delete"-->
</vlan>
</vlans>
</provider-edge>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
customer-spanning-tree provider-edge svlan <2-4094> priority <0-240>
```

Configure options

Debug configuration flag

Attribute Name: options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf edit-config payload

```

<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<mstp>
<debug>
<config>
  <options>mstp protocol</options> <!-- operation="delete"-->
</config>
</debug>
</mstp>
</xstp>

```

Command Syntax

```
debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet
tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Attribute Name: terminal-debug-options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf RPC payload

```
<mstp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<terminal-debug-options>mstp protocol</terminal-debug-options>
</mstp-terminal-debug-on>
```

Command Syntax

```
debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet
tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

no debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Attribute Name: terminal-debug-options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf RPC payload

```
<mstp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<terminal-debug-options>mstp protocol</terminal-debug-options>
</mstp-terminal-debug-off>
```

Command Syntax

```
no debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp
packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

clear spanning-tree detected protocols bridge <1-32>

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-detected-protocols-per-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
<bridge-id>1</bridge-id>
</clear-spanning-tree-detected-protocols-per-bridge>
```

Command Syntax

```
clear spanning-tree detected protocols bridge <1-32>
```

clear spanning-tree detected protocols interface INTERFACE

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-detected-protocols-per-interface xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interface-name>INTERFACE</interface-name>
```

```
</clear-spanning-tree-detected-protocols-per-interface>
```

Command Syntax

```
clear spanning-tree detected protocols interface INTERFACE
```

clear spanning-tree statistics (spbm|<1-63>) bridge <1-32>

Attribute Name: mst-instance-id

Attribute Type: union

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-instance-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <mst-instance-id>MSTP_INSTANCE_SPBM_TYPE_T</mst-instance-id>
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-instance-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics (spbm|<1-63>) bridge <1-32>
```

clear spanning-tree statistics interface IFNAME vlan <2-4094> bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-interface-vlan-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interface-name>IFNAME</interface-name>
  <vlan-id>2</vlan-id>
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-interface-vlan-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics interface IFNAME vlan <2-4094> bridge <1-32>
```

clear spanning-tree statistics interface IFNAME bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-interface-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interface-name>IFNAME</interface-name>
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-interface-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics interface IFNAME bridge <1-32>
```

clear spanning-tree statistics bridge <1-32>

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-bridge xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-xstp">
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-bridge>
```

Command Syntax

```
clear spanning-tree statistics bridge <1-32>
```

clear spanning-tree statistics vlan <2-4094> bridge <1-32>

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-vlan-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <vlan-id>2</vlan-id>
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-vlan-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics vlan <2-4094> bridge <1-32>
```

clear spanning-tree statistics interface IFNAME (spbm|<1-63>) bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mst-instance-id

Attribute Type: union

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<clear-spanning-tree-statistics-per-interface-instance-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
  <interface-name>IFNAME</interface-name>
  <mst-instance-id>MSTP_INSTANCE_SPBM_TYPE_T</mst-instance-id>
  <bridge-id>1</bridge-id>
</clear-spanning-tree-statistics-per-interface-instance-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics interface IFNAME (spbm|<1-63>) bridge <1-32>
```

snmp restart mstp

Netconf RPC payload

```
<mstp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp"/>
```

Command Syntax

```
snmp restart mstp
```

IPI-IF-AGGREGATE

Configure aggregate id

Channel group identifier

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-16383

Attribute Name: agg-type

Attribute Type: enum (lACP|static)

Attribute Name: lACP-mode

Attribute Type: enum (passive|active)

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
      <config>
        <agg-type>2</agg-type>
        <lacp-mode>1</lacp-mode>
        <aggregate-id>1</aggregate-id>
      </config>
    </member-aggregation>
  </interface>
</interfaces>

```

Command Syntax

```
static-channel-group <1-16383>
```

Configure lacp mode

Use this command to add a port to a channel group specified by the channel group number (1-12). This command enables link aggregation on a port, so that it may be selected for aggregation by the local system.

Attribute Name: lacp-mode

Attribute Type: enum (passive|active)

Attribute Name: agg-type

Attribute Type: enum (lacp|static)

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
      <config>
        <agg-type>1</agg-type>
        <aggregate-id>1</aggregate-id>
        <lacp-mode>passive</lacp-mode>
      </config>
    </member-aggregation>
  </interface>
</interfaces>

```

```

</member-aggregation>
</interface>
</interfaces>

```

Command Syntax

```
channel-group <1-16383> mode (passive|active)
```

Configure weight

Set the port channel weight

Attribute Name: weight

Attribute Type: uint16

Attribute Range: 1-16

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
      <port-channel-weight>
        <config>
          <weight>1</weight> <!-- operation="delete"-->
        </config>
      </port-channel-weight>
    </member-aggregation>
  </interface>
</interfaces>

```

Command Syntax

```
port-channel weight <1-16>
```

Configure min links

Minimum number of active links required in this aggregator

Attribute Name: min-links

Attribute Type: uint8

Attribute Range: 2-32

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>

```

```

    <name>IFNAME</name>
  </config>
  <aggregator xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-aggregate">
    <config>
      <min-links>2</min-links> <!-- operation="delete"-->
    </config>
  </aggregator>
</interface>
</interfaces>

```

Command Syntax

```
port-channel min-links <2-32>
```

Configure min bandwidth

Minimum number of bandwidth required in this aggregator

Attribute Name: min-bandwidth

Attribute Type: string

Netconf edit-config payload

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <aggregator xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-aggregate">
      <config>
        <min-bandwidth>BANDWIDTH</min-bandwidth> <!-- operation="delete"-->
      </config>
    </aggregator>
  </interface>
</interfaces>

```

Command Syntax

```
port-channel min-bandwidth BANDWIDTH
```

IPI-LACP

Configure system priority

Use this attribute to the system priority of this switch. This priority is used for determining the system that is responsible for resolving conflicts in the choice of aggregation groups. A lower numerical value has a higher priority.

Attribute Name: system-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-65535

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <global>
    <config>
      <system-priority>0</system-priority> <!-- operation="delete"-->
    </config>
  </global>
</lacp>
```

Command Syntax

```
lacp system-priority <0-65535>
```

Configure options

This attribute returns the terminal debug options which are enabled

Attribute Name: options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <debug>
    <config>
      <options>event</options> <!-- operation="delete"-->
    </config>
  </debug>
</lacp>
```

Command Syntax

```
debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

Configure port priority

Use this attribute to set the priority of a channel. Channels are selected for aggregation based on their priority with the higher priority (numerically lower) channels selected first

Attribute Name: port-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 1-65535

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
```



```

        <name>WORD</name>
    </config>
<member-aggregation>
<config>
    <port-priority>1</port-priority> <!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>

```

Command Syntax

```
lacp port-priority <1-65535>
```

Configure timeout

Use this attribute to set either a short or long timeout value on a port. The timeout value is the number of seconds before invalidating a received LACP data unit (DU). If the LACP_timeout bit (encoded in Actor_State and Partner_State fields) is set to 1, the short timeout takes effect; if set to 0, the long timeout takes effect.

Attribute Name: timeout

Attribute Type: enum (long|short)

Default Value: long

Netconf edit-config payload

```

<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<member-aggregation>
<config>
    <timeout>long</timeout> <!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>

```

Command Syntax

```
lacp timeout (long|short)
```

Configure bridge type

Use this attribute to set the address type to use for sending LACPDUs (Link Aggregation Control Protocol Data Units).

Attribute Name: bridge-type

Attribute Type: enum (customer-bridge-group-address|multicast-group-address|non-tmpr-group-address)

Default Value: multicast-group-address

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <member-aggregation>
      <config>
        <bridge-type>multicast-group-address</bridge-type> <!-- operation="delete"-->
      </config>
    </member-aggregation>
  </interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp destination-mac (customer-bridge-group-address|multicast-group-address|non-
tmpr-group-address)
```

Configure force up

Use this attribute to enable the port as force-up in a channel group. Setting this attribute makes the port logically operational even if link aggregation goes down.

Attribute Name: force-up

Attribute Type: empty

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <member-aggregation>
      <config>
        </force-up><!-- operation="delete"-->
      </config>
    </member-aggregation>
  </interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp force-up
```

Configure agg force up

Use this attribute to enable the port as lacp agg force-up

Attribute Name: agg-force-up

Attribute Type: empty

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <member-aggregation>
        <config>
          </agg-force-up><!-- operation="delete"-->
        </config>
      </member-aggregation>
    </interface>
  </interfaces>
</lacp>
```

Command Syntax

```
lacp agg force-up
```

snmp restart lacp

Netconf RPC payload

```
<lacp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp"/>
```

Command Syntax

```
snmp restart lacp
```

clear lacp (<1-65535>|) counters

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
<clear-lacp-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <aggregate-id>1</aggregate-id>
</clear-lacp-counters>
```

Command Syntax

```
clear lacp (<1-65535>|) counters
```

debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf RPC payload

```
<lacp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <terminal-debug-options>event</terminal-debug-options>
</lacp-terminal-debug-on>
```

Command Syntax

```
debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

no debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf RPC payload

```
<lacp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
  <terminal-debug-options>event</terminal-debug-options>
</lacp-terminal-debug-off>
```

Command Syntax

```
no debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

IPI-LLDPV2

Configure enable

Enable or disable the LLDP protocol at node level

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </global>
</lldp>
```

Command Syntax

```
lldp run
```

Configure enable tx rx only

Specifies to only send or receive LLDP frames

Attribute Name: enable-tx-rx-only

Attribute Type: enum (rxonly|txonly)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <config>
      <enable-tx-rx-only>rxonly</enable-tx-rx-only> <!-- operation="delete"-->
    </config>
  </global>
</lldp>
```

Command Syntax

```
set lldp enable (rxonly|txonly)
```

Configure notification interval

This object controls the interval between transmission of LLDP notifications during normal transmission periods

Attribute Name: notification-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <config>
      <notification-interval>5</notification-interval> <!-- operation="delete"-->
    </config>
  </global>
</lldp>
```

Command Syntax

```
lldp notification-interval <5-3600>
```

Configure port description

This attribute specifies to include basic management port description information in LLDP TLV

Attribute Name: port-description

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```

<global>
<global-tlv-control>
<global-basic-management>
<config>
  </port-description><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>

```

Command Syntax

```
lldp tlv-select basic-mgmt port-description
```

Configure system description

This attribute specifies to include basic management system description information in LLDP TLV

Attribute Name: system-description

Attribute Type: empty

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
  </system-description><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>

```

Command Syntax

```
lldp tlv-select basic-mgmt system-description
```

Configure system name

This attribute specifies to include basic management system name information in LLDP TLV

Attribute Name: system-name

Attribute Type: empty

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>

```

```

    </system-name><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>

```

Command Syntax

```
lldp tlv-select basic-mgmt system-name
```

Configure system capabilities

This attribute specifies to include basic management system capabilities information in LLDP TLV

Attribute Name: system-capabilities

Attribute Type: empty

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
    </system-capabilities><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>

```

Command Syntax

```
lldp tlv-select basic-mgmt system-capabilities
```

Configure management address

This attribute specifies to include basic management management-address information in LLDP TLV

Attribute Name: management-address

Attribute Type: empty

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
    </management-address><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>

```

```
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt management-address
```

Configure port vlan id

This attribute specifies to include ieee-8021-org-specific port vlan-id information in LLDP TLV

Attribute Name: port-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </port-vlan-id><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific port-vlanid
```

Configure port protocol vlan id

This attribute specifies to include ieee-8021-org-specific port protocol vlan-id information in LLDP TLV

Attribute Name: port-protocol-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </port-protocol-vlan-id><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific port-ptcl-vlanid
```

Configure vlan name

This attribute specifies to include ieee-8021-org-specific vlan name information in LLDP TLV

Attribute Name: vlan-name

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </vlan-name><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific vlan-name
```

Configure protocol identifier

This attribute specifies to include ieee-8021-org-specific protocol identifier information in LLDP TLV

Attribute Name: protocol-identifier

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </protocol-identifier><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific ptcl-identity
```

Configure vid digest

This attribute specifies to include ieee-8021-org-specific vid usage digest information in LLDP TLV

Attribute Name: vid-digest

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </vid-digest><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific vid-digest
```

Configure management vlan id

This attribute specifies to include ieee-8021-org-specific management vlan-id information in LLDP TLV

Attribute Name: management-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </management-vlan-id><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific mgmt-vid
```

Configure link aggregation

This attribute specifies to include ieee-8021-org-specific link aggregation information in LLDP TLV

Attribute Name: link-aggregation

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8021-org-specific>
        <config>
          </link-aggregation><!-- operation="delete"-->
        </config>
      </global-ieee-8021-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific link-agg
```

Configure mac phy

This attribute specifies to include ieee-8023-org-specific MAC or PHY information in LLDP TLV

Attribute Name: mac-phy

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8023-org-specific>
        <config>
          </mac-phy><!-- operation="delete"-->
        </config>
      </global-ieee-8023-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8023-org-specific mac-phy
```

Configure max mtu size

This attribute specifies to include ieee-8023-org-specific maximum mtu size information in LLDP TLV

Attribute Name: max-mtu-size

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <global-tlv-control>
      <global-ieee-8023-org-specific>
        <config>
          </max-mtu-size><!-- operation="delete"-->
        </config>
      </global-ieee-8023-org-specific>
    </global-tlv-control>
  </global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8023-org-specific max-mtu-size
```

Configure locally assigned chassis id

This attribute used to identify the chassis component associated with the local system

Attribute Name: locally-assigned-chassis-id

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <management-if>
      <config>
        <locally-assigned-chassis-id>NAME</locally-assigned-chassis-id> <!--
operation="delete"-->
      </config>
    </management-if>
  </global>
</lldp>
```

Command Syntax

```
set lldp chassis locally-assigned NAME
```

Configure reinit delay

The minimum time interval an LLDP port waits before re-initializing an LLDP transmission

Attribute Name: reinit-delay

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <reinit-delay>1</reinit-delay> <!-- operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp timer reinit-delay <1-10>
```

Configure message tx interval

The delay between successive LLDP frame transmissions during normal transmission periods

Attribute Name: message-tx-interval

Attribute Type: uint32

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <message-tx-interval>5</message-tx-interval> <!-- operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp timer msg-tx-interval <5-3600>
```

Configure message tx hold multiplier

Multiplier of message-tx-interval to determine the Time To Live (TTL) that is carried in LLDP frames transmitted by the LLDP agent

Attribute Name: message-tx-hold-multiplier

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-100

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <message-tx-hold-multiplier>1</message-tx-hold-multiplier> <!--
operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp msg-tx-hold <1-100>
```

Configure message fast tx

The interval at which LLDP frames are transmitted on behalf of LLDP agent during fast transmission periods

Attribute Name: message-fast-tx

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <message-fast-tx>1</message-fast-tx> <!-- operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp timer msg-fast-tx <1-3600>
```

Configure tx credit max

The maximum number of consecutive LLDPDUs that can be transmitted at any time

Attribute Name: tx-credit-max

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <tx-credit-max>1</tx-credit-max> <!-- operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp tx-max-credit <1-10>
```

Configure tx fast init

The number of LLDPDUs to send during the fast transmission periods

Attribute Name: tx-fast-init

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-8

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <transmit>
      <config>
        <tx-fast-init>1</tx-fast-init> <!-- operation="delete"-->
      </config>
    </transmit>
  </global>
</lldp>
```

Command Syntax

```
set lldp tx-fast-init <1-8>
```

Configure neighbor timer

This attribute configures timer to discard received message when remote table is full

Attribute Name: neighbor-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <receive>
      <config>
        <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
        <neighbor-timer>1</neighbor-timer> <!-- operation="delete"-->
      </config>
    </receive>
  </global>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard received-info timer <1-65535>
```

Configure port timer

This attribute configures timer to discard or delete existing info for received message port MAC when the remote table is full

Attribute Name: port-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: port-mac

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <receive>
      <config>
        <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
        <port-mac>MAC</port-mac> <!-- operation="delete"-->
        <port-timer>1</port-timer> <!-- operation="delete"-->
      </config>
    </receive>
  </global>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard existing-info MAC timer <1-65535>
```

Configure port address

This attribute specifies sub type of the Management Address TLV. Can be configured as mac-address, ip-address or ipv6-address

Attribute Name: port-address

Attribute Type: enum (mac-address|ip-address|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <agent-tlv>
      <config>
        <port-address>mac-address</port-address> <!-- operation="delete"-->
      </config>
    </agent-tlv>
  </global>
</lldp>
```

Command Syntax

```
set lldp management-address-tlv (mac-address|ip-address|ipv6-address)
```

Configure chassis id

This attribute specifies chassis ID subtype for the LLDP agent on a port. Can be configured as if-alias or ip-address or ipv6-address or mac-address or if-name or locally-assigned name

Attribute Name: chassis-id

Attribute Type: enum (if-alias|ip-address|mac-address|if-name|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <agent-tlv>
      <config>
        <chassis-id>mac-address</chassis-id> <!-- operation="delete"-->
      </config>
    </agent-tlv>
  </global>
</lldp>
```

Command Syntax

```
set lldp chassis-id-tlv (if-alias|ip-address|mac-address|if-name|locally-
  assigned|ipv6-address)
```

Configure port id

This attribute specifies sub type of the port id TLV. Can be configured as if-alias or mac-address or ip-address or ipv6-address or if-name or agent-circuit-id or locally assigned name

Attribute Name: port-id

Attribute Type: enum (if-alias|mac-address|ip-address|if-name|agt-circuit-id|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <global>
    <agent-tlv>
      <config>
        <port-id>mac-address</port-id> <!-- operation="delete"-->
      </config>
    </agent-tlv>
  </global>
</lldp>
```

Command Syntax

```
set lldp port-id-tlv (if-alias|mac-address|ip-address|if-name|agt-circuit-
id|locally-assigned|ipv6-address)
```

Configure options

This attribute returns the terminal debug options which are enabled

Attribute Name: options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <debug>
    <config>
      <options>event</options> <!-- operation="delete"-->
    </config>
  </debug>
</lldp>
```

Command Syntax

```
debug lldp (event|rx|tx|message|ha|all)
```

Configure disable lldp agent

Use this attribute to disable LLDP on interface when it is enabled globally

Attribute Name: disable-lldp-agent

Attribute Type: uint8

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </disable-lldp-agent><!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp disable default-agent
```

Configure agent circuit id

DHCP agent circuit ID association on interface

Attribute Name: agent-circuit-id

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <agent-circuit-id>VALUE</agent-circuit-id> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp agt-circuit-id VALUE
```

Configure med device type

LLDP-MED type of interface. Class-0 is not defined, Class-1 is for generic endpoints and is applicable to all endpoints that require the base LLDP discovery services. Class-2 is for media endpoints and it includes endpoints that have IP media capabilities. Class-3 is for communication endpoints i.e., devices acting as end user communication appliances. Class-4 is for Network Connectivity Device. Class 5-255 are Reserved

Attribute Name: med-device-type

Attribute Type: enum (ep-class1|ep-class2|ep-class3|net-connect)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <med-device-type>ep-class1</med-device-type> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp med-devtype (ep-class1|ep-class2|ep-class3|net-connect)
```

Configure local name

Interface sub type with local name

Attribute Name: local-name

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <local-name>NAME</local-name> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp locally-assigned NAME
```

Configure agent type

LLDP agent type on this interface

Attribute Name: agent-type

Attribute Type: enum (non-tpmr-bridge|customer-bridge|default)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</agents>
<agent> <!-- operation="delete"-->
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp-agent (non-tpmr-bridge|customer-bridge|)
```

Configure enable tx rx

Enables interface with LLDP protocol and specifies to send and(or) receive packets on interface

Attribute Name: enable-tx-rx

Attribute Type: enum (rxonly|txonly|txrx)

Default Value: rxonly

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <enable-tx-rx>rxonly</enable-tx-rx> <!-- operation="delete"-->
    </agent>
  </agents>
</lldp>

```

Command Syntax

```
set lldp enable (rxonly|txonly|txrx)
```

Configure disable tx rx

Disables interface with LLDP protocol

Attribute Name: disable-tx-rx

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
        </config>
        </disable-tx-rx><!-- operation="delete"-->
      </agent>
    </agents>
  </interface>
</lldp>
```

Command Syntax

```
set lldp disable
```

Configure name

The minimum time interval an LLDP port waits before re-initializing an LLDP transmission

Attribute Name: reinit-delay

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
```

```

<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <transmit>
    <config>
      <reinit-delay>1</reinit-delay> <!-- operation="delete"-->
    </config>
  </transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp timer reinit-delay <1-10>
```

Configure transmit message-tx-interval

The delay between successive LLDP frame transmissions during normal transmission periods

Attribute Name: message-tx-interval

Attribute Type: uint32

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <transmit>
        <config>
          <message-tx-interval>5</message-tx-interval> <!-- operation="delete"-->
        </config>
      </transmit>
    </agent>
  </agents>
</lldp>

```

```

</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp timer msg-tx-interval <5-3600>
```

Configure transmit message-tx-hold-multiplier

Multiplier of message-tx-interval to determine the Time To Live (TTL) that is carried in LLDP frames transmitted by the LLDP agent

Attribute Name: message-tx-hold-multiplier

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-100

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <transmit>
        <config>
          <message-tx-hold-multiplier>1</message-tx-hold-multiplier> <!--
operation="delete"-->
        </config>
      </transmit>
    </agent>
  </agents>
</lldp>

```

Command Syntax

```
set lldp msg-tx-hold <1-100>
```

Configure transmit message-fast-tx

The interval at which LLDP frames are transmitted on behalf of LLDP agent during fast transmission periods

Attribute Name: message-fast-tx

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <transmit>
    <config>
      <message-fast-tx>1</message-fast-tx> <!-- operation="delete"-->
    </config>
  </transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp timer msg-fast-tx <1-3600>
```

Configure transmit tx-credit-max

The maximum number of consecutive LLDPDUs that can be transmitted at any time

Attribute Name: tx-credit-max

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
```

```

        <name>WORD</name>
    </config>
</agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <transmit>
    <config>
        <tx-credit-max>1</tx-credit-max> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp tx-max-credit <1-10>
```

Configure transmit tx-fast-init

The number of LLDPDUs to send during the fast transmission periods

Attribute Name: tx-fast-init

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-8

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
</interface>
</interfaces>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <transmit>
    <config>
        <tx-fast-init>1</tx-fast-init> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</lldp>

```

```

</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp tx-fast-init <1-8>
```

Configure neighbor limit

This attribute configures timer to discard received message when remote table is full

Attribute Name: neighbor-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <receive>
    <config>
      <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
      <neighbor-timer>1</neighbor-timer> <!-- operation="delete"-->
    </config>
  </receive>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard received-info timer <1-65535>
```

Configure port mac

This attribute configures timer to discard or delete existing info for received message port MAC when the remote table is full

Attribute Name: port-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: port-mac

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <agents>
      <agent>
        <agent-type>default</agent-type>
        <config>
          <agent-type>default</agent-type>
        </config>
        <receive>
          <config>
            <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
            <port-mac>MAC</port-mac> <!-- operation="delete"-->
            <port-timer>1</port-timer> <!-- operation="delete"-->
          </config>
        </receive>
      </agent>
    </agents>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard existing-info MAC timer <1-65535>
```

Configure agent-tlv port-address

This attribute specifies sub type of the Management Address TLV. Can be configured as mac-address, ip-address or ipv6-address

Attribute Name: port-address

Attribute Type: enum (mac-address|ip-address|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <agents>
      <agent>
        <agent-type>default</agent-type>
        <config>
          <agent-type>default</agent-type>
        </config>
        <agent-tlv>
          <config>
            <port-address>mac-address</port-address> <!-- operation="delete"-->
          </config>
        </agent-tlv>
      </agent>
    </agents>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp management-address-tlv (mac-address|ip-address|ipv6-address)
```

Configure agent-tlv chassis-id

This attribute specifies chassis ID subtype for the LLDP agent on a port. Can be configured as if-alias or ip-address or ipv6-address or mac-address or if-name or locally-assigned name

Attribute Name: chassis-id

Attribute Type: enum (if-alias|ip-address|mac-address|if-name|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <agent-tlv>
  <config>
    <chassis-id>mac-address</chassis-id> <!-- operation="delete"-->
  </config>
</agent-tlv>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp chassis-id-tlv (if-alias|ip-address|mac-address|if-name|locally-
assigned|ipv6-address)
```

Configure agent-tlv port-id

This attribute specifies sub type of the port id TLV. Can be configured as if-alias or mac-address or ip-address or ipv6-address or if-name or agent-circuit-id or locally assigned name

Attribute Name: port-id

Attribute Type: enum (if-alias|mac-address|ip-address|if-name|agt-circuit-id|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <agent-tlv>

```

```

    <config>
      <port-id>mac-address</port-id> <!-- operation="delete"-->
    </config>
  </agent-tlv>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
set lldp port-id-tlv (if-alias|mac-address|ip-address|if-name|agt-circuit-
id|locally-assigned|ipv6-address)
```

Configure basic-management port-description

This attribute specifies to include basic management port description information in LLDP TLV

Attribute Name: port-description

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agent>
    <agent-type>default</agent-type>
    <config>
      <agent-type>default</agent-type>
    </config>
    <tlv-control>
      <basic-management>
        <config>
          <port-description>not-set</port-description> <!-- operation="delete"-->
        </config>
      </basic-management>
    </tlv-control>
  </agent>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt port-description (select|unselect)
```

Configure basic-management system-description

This attribute specifies to include basic management system description information in LLDP TLV

Attribute Name: system-description

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <agents>
      <agent>
        <agent-type>default</agent-type>
        <config>
          <agent-type>default</agent-type>
        </config>
        <tlv-control>
          <basic-management>
            <config>
              <system-description>not-set</system-description> <!-- operation="delete"-
->
            </config>
          </basic-management>
        </tlv-control>
      </agent>
    </agents>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv basic-mgmt system-description (select|unselect)
```

Configure basic-management system-name

This attribute specifies to include basic management system name information in LLDP TLV

Attribute Name: system-name

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
  <basic-management>
  <config>
    <system-name>not-set</system-name> <!-- operation="delete"-->
  </config>
</basic-management>
</tlv-control>
</agent>
</agents>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt system-name (select|unselect)
```

Configure basic-management system-capabilities

This attribute specifies to include basic management system capabilities information in LLDP TLV

Attribute Name: system-capabilities

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>

```

```

    <config>
      <agent-type>default</agent-type>
    </config>
    <tlv-control>
      <basic-management>
        <config>
          <system-capabilities>not-set</system-capabilities> <!--
operation="delete"-->
        </config>
      </basic-management>
    </tlv-control>
  </agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt system-capabilities (select|unselect)
```

Configure basic-management management-address

This attribute specifies to include basic management management-address information in LLDP TLV

Attribute Name: management-address

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <agents>
      <agent>
        <agent-type>default</agent-type>
        <config>
          <agent-type>default</agent-type>
        </config>
        <tlv-control>
          <basic-management>
            <config>
              <management-address>not-set</management-address> <!-- operation="delete"-
->
            </config>
          </basic-management>
        </tlv-control>

```

```

</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt management-address (select|unselect)
```

Configure ieee-8021-org-specific port-vlan-id

This attribute specifies to include ieee-8021-org-specific port vlan-id information in LLDP TLV

Attribute Name: port-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
    <ieee-8021-org-specific>
      <config>
        <port-vlan-id>not-set</port-vlan-id> <!-- operation="delete"-->
      </config>
    </ieee-8021-org-specific>
  </tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8021-org-specific port-vlanid (select|unselect)
```

Configure ieee-8021-org-specific port-protocol-vlan-id

This attribute specifies to include ieee-8021-org-specific port protocol vlan-id information in LLDP TLV

Attribute Name: port-protocol-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <agents>
      <agent>
        <agent-type>default</agent-type>
        <config>
          <agent-type>default</agent-type>
        </config>
        <tlv-control>
          <ieee-8021-org-specific>
            <config>
              <port-protocol-vlan-id>not-set</port-protocol-vlan-id> <!--
operation="delete"-->
            </config>
          </ieee-8021-org-specific>
        </tlv-control>
      </agent>
    </agents>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific port-ptcl-vlanid (select|unselect)
```

Configure ieee-8021-org-specific vlan-name

This attribute specifies to include ieee-8021-org-specific vlan name information in LLDP TLV

Attribute Name: vlan-name

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
  <ieee-8021-org-specific>
  <config>
    <vlan-name>not-set</vlan-name> <!-- operation="delete"-->
  </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8021-org-specific vlan-name (select|unselect)
```

Configure ieee-8021-org-specific protocol-identifier

This attribute specifies to include ieee-8021-org-specific protocol identifier information in LLDP TLV

Attribute Name: protocol-identifier

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>

```

```

    <tlv-control>
    <ieee-8021-org-specific>
    <config>
        <protocol-identifier>not-set</protocol-identifier> <!--
operation="delete"-->
    </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8021-org-specific ptcl-identity (select|unselect)
```

Configure ieee-8021-org-specific vid-digest

This attribute specifies to include ieee-8021-org-specific vid usage digest information in LLDP TLV

Attribute Name: vid-digest

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
</interface>
</agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <tlv-control>
    <ieee-8021-org-specific>
    <config>
        <vid-digest>not-set</vid-digest> <!-- operation="delete"-->
    </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>

```

```
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific vid-digest (select|unselect)
```

Configure ieee-8021-org-specific management-vlan-id

This attribute specifies to include ieee-8021-org-specific management vlan-id information in LLDP TLV

Attribute Name: management-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
    <ieee-8021-org-specific>
      <config>
        <management-vlan-id>not-set</management-vlan-id> <!-- operation="delete"-
->
      </config>
    </ieee-8021-org-specific>
  </tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific mgmt-vid (select|unselect)
```

Configure ieee-8021-org-specific link-aggregation

This attribute specifies to include ieee-8021-org-specific link aggregation information in LLDP TLV

Attribute Name: link-aggregation

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
    <ieee-8021-org-specific>
      <config>
        <link-aggregation>not-set</link-aggregation> <!-- operation="delete"-->
      </config>
    </ieee-8021-org-specific>
  </tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific link-agg (select|unselect)
```

Configure ieee-8023-org-specific mac-phy

This attribute specifies to include ieee-8023-org-specific MAC or PHY information in LLDP TLV

Attribute Name: mac-phy

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
```



```

    <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
    <ieee-8023-org-specific>
      <config>
        <mac-phy>not-set</mac-phy> <!-- operation="delete"-->
      </config>
    </ieee-8023-org-specific>
  </tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8023-org-specific mac-phy (select|unselect)
```

Configure ieee-8023-org-specific max-mtu-size

This attribute specifies to include ieee-8023-org-specific maximum mtu size information in LLDP TLV

Attribute Name: max-mtu-size

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <tlv-control>
        <ieee-8023-org-specific>
          <config>
            <max-mtu-size>not-set</max-mtu-size> <!-- operation="delete"-->
          </config>
        </ieee-8023-org-specific>
      </tlv-control>
    </agent>
  </agents>
</lldp>

```

```

</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8023-org-specific max-mtu-size (select|unselect)
```

Configure network policy

Network policy information configured on the port for connected media endpoint. Following network policy will be supported VLAN ID, Priority Tagging, VLAN DSCP

Attribute Name: network-policy

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
  <tlv-media-capabilities>
  <config>
    <network-policy>not-set</network-policy> <!-- operation="delete"-->
  </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv med network-policy (select|unselect)
```

Configure location

Media Tlv type Location information configured for the port

Attribute Name: location

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <agents>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <tlv-control>
        <tlv-media-capabilities>
          <config>
            <location>not-set</location> <!-- operation="delete"-->
          </config>
        </tlv-media-capabilities>
      </tlv-control>
    </agent>
  </agents>
</lldp>
```

Command Syntax

```
lldp tlv med location (select|unselect)
```

Configure inventory

Includes the TLV for information like hardware revision, software revision etc based on the current hardware platform and the software version

Attribute Name: inventory

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
  <tlv-control>
  <tlv-media-capabilities>
  <config>
    <inventory>not-set</inventory> <!-- operation="delete"-->
  </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv med inventory (select|unselect)
```

Configure media capabilities

Includes various media-capabilities of the box for the neighbor

Attribute Name: media-capabilities

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```

<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lllvpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agents>
<agent>
  <agent-type>default</agent-type>
  <config>
    <agent-type>default</agent-type>
  </config>
</agent>
</agents>
</lldp>

```

```

    <tlv-control>
    <tlv-media-capabilities>
    <config>
        <media-capabilities>not-set</media-capabilities> <!-- operation="delete"-
->
    </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv med media-capabilities (select|unselect)
```

debug lldp (event|rx|tx|message|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf RPC payload

```

<lldp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<terminal-debug-options>event</terminal-debug-options>
</lldp-terminal-debug-on>

```

Command Syntax

```
debug lldp (event|rx|tx|message|ha|all)
```

no debug lldp (event|rx|tx|message|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf RPC payload

```

<lldp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
lldpv2">
<terminal-debug-options>event</terminal-debug-options>
</lldp-terminal-debug-off>

```

Command Syntax

```
no debug lldp (event|rx|tx|message|ha|all)
```

clear lldp counters ((IFNAME|))

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-lldp-counter xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interface-name>IFNAME</interface-name>
</clear-lldp-counter>
```

Command Syntax

```
clear lldp counters ((IFNAME|))
```

clear lldp neighbors ((IFNAME|))

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-lldp-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interface-name>IFNAME</interface-name>
</clear-lldp-neighbors>
```

Command Syntax

```
clear lldp neighbors ((IFNAME|))
```

snmp restart lldp

Netconf RPC payload

```
<lldp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2"/>
```

Command Syntax

```
snmp restart lldp
```

IPI-RIB

Configure prefix

Use this attribute to configure a prefix for an IPv4 static route (e.g. 10.0.0.0/8)

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
<instance-name>NAME</instance-name>
<config>
<instance-name>WORD</instance-name>
<instance-type>vrf</instance-type>
```

```

</config>
  <instance-type>vrf</instance-type>
<static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<ipv4>
<static-route> <!-- operation="delete"-->
  <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
  <config>
    <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
  </config>
</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure gateway

Use this attribute to configure an IPv4 gateway address for next hop for this destination prefix

Attribute Name: gateway

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv4>
    <static-route>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
        <prefix>A.B.C.D/M</prefix>
      </config>
      <next-hops-gateway>
      <next-hop-gateway> <!-- operation="delete"-->
        <gateway>A.B.C.D</gateway>
        <config>
          <gateway>A.B.C.D</gateway>
        </config>
      </next-hop-gateway>
    </next-hops-gateway>
    </static-route>
    </ipv4>
    </static-routing>
  </network-instance>
</network-instances>

```

```

</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D
```

Configure bfd state

Use this attribute to set fall-over detection.

Attribute Name: bfd-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
        <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
            <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-gateway>
            <next-hop-gateway>
              <gateway>A.B.C.D</gateway>
              <config>
                <gateway>A.B.C.D</gateway>
              </config>
              <bfd-state>disable</bfd-state> <!-- operation="delete"-->
            </next-hop-gateway>
          </next-hops-gateway>
        </static-route>
      </ipv4>
    </static-routing>
  </network-instance>
</network-instances>

```


Command Syntax

```
ip static (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D fall-over-bfd
(disable|enable)
```

Configure description

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: interface

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
        <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
            <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-gateway>
```

```

    <next-hop-gateway>
      <gateway>A.B.C.D</gateway>
      <config>
        <gateway>A.B.C.D</gateway>
        <interface>IFNAME</interface> <!-- operation="delete"-->
        <distance>1</distance> <!-- operation="delete"-->
        <tag>0</tag> <!-- operation="delete"-->
        <track-id>1</track-id> <!-- operation="delete"-->
        </recursive><!-- operation="delete"-->
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </next-hop-gateway>
  </next-hops-gateway>
</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D IFNAME (<1-255>|) (tag <0-4294967295>|) (track <1-500>|) (recursive|) (description LINE|)
```

Configure instance name

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv4>
    <static-route>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
        <prefix>A.B.C.D/M</prefix>
      </config>
      <next-hops-gateway>
      <next-hop-gateway>
        <gateway>A.B.C.D</gateway>
        <config>
          <gateway>A.B.C.D</gateway>
          <distance>1</distance> <!-- operation="delete"-->
          <tag>0</tag> <!-- operation="delete"-->
          <track-id>1</track-id> <!-- operation="delete"-->
          </recursive><!-- operation="delete"-->
        </config>
        <description>LINE</description> <!-- operation="delete"-->
      </next-hop-gateway>
    </next-hops-gateway>
    </static-route>
    </ipv4>
    </static-routing>
  </network-instance>
</network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D (<1-255>|) (tag <0-
4294967295>|) (track <1-500>|) (recursive|) (description LINE|)
```

Configure recursive

Use this attribute to enable recursive resolution for this route.

Attribute Name: recursive

Attribute Type: empty

Attribute Name: interface

Attribute Type: string

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
        <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
            <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-gateway>
            <next-hop-gateway>
              <gateway>A.B.C.D</gateway>
              <config>
                <gateway>A.B.C.D</gateway>
                <interface>IFNAME</interface> <!-- operation="delete"-->
                </enable-global-table-lookup><!-- operation="delete"-->
                <track-id>1</track-id> <!-- operation="delete"-->
              </config>
              </recursive><!-- operation="delete"-->
            </next-hop-gateway>
          </next-hops-gateway>
        </static-route>
      </ipv4>
    </static-routing>
  </network-instance>
</network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D IFNAME global (track <1-
500>|) (recursive|)
```

Configure enable global table lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv4>
    <static-route>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
        <prefix>A.B.C.D/M</prefix>
      </config>
      <next-hops-gateway>
      <next-hop-gateway>
        <gateway>A.B.C.D</gateway>
        <config>
          <gateway>A.B.C.D</gateway>
        </config>
        </enable-global-table-lookup><!-- operation="delete"-->
      </next-hop-gateway>
    </next-hops-gateway>
    </static-route>
    </ipv4>
    </static-routing>
    </network-instance>
  </network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D global
```

Configure interface

Use this attribute to configure a interface for next hop for this destination prefix

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
```

```

    <instance-name>WORD</instance-name>
    <instance-type>vrf</instance-type>
</config>
    <instance-type>vrf</instance-type>
<static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<ipv4>
<static-route>
    <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
    <config>
        <prefix>A.B.C.D/M</prefix>
    </config>
    <next-hops-interface>
    <next-hop-interface> <!-- operation="delete"-->
        <interface>IFNAME</interface>
        <config>
            <interface>IFNAME</interface>
        </config>
    </next-hop-interface>
</next-hops-interface>
</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME
```

Configure instance type

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
        <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
            <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-interface>
            <next-hop-interface>
              <interface>IFNAME</interface>
              <config>
                <interface>IFNAME</interface>
                <distance>1</distance> <!-- operation="delete"-->
                <tag>0</tag> <!-- operation="delete"-->
                <track-id>1</track-id> <!-- operation="delete"-->
              </config>
              <description>LINE</description> <!-- operation="delete"-->
            </next-hop-interface>
          </next-hops-interface>
        </static-route>
      </ipv4>
    </static-routing>
  </network-instance>
</network-instances>

```

Command Syntax

```

ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME (<1-255>|) (tag <0-
4294967295>|) (track <1-500>|) (description LINE|)

```

Configure track id

Use this attribute to track a object.

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv4>
    <static-route>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
        <prefix>A.B.C.D/M</prefix>
      </config>
      <next-hops-interface>
      <next-hop-interface>
        <interface>IFNAME</interface>
        <config>
          <interface>IFNAME</interface>
          </enable-global-table-lookup><!-- operation="delete"-->
        </config>
        <track-id>1</track-id> <!-- operation="delete"-->
      </next-hop-interface>
    </next-hops-interface>
    </static-route>
    </ipv4>
    </static-routing>
    </network-instance>
  </network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME global (track <1-500>|)
```

Configure next-hop-interface enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>

```



```

    <instance-type>vrf</instance-type>
  </config>
  <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <ipv4>
  <static-route>
    <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
    <config>
      <prefix>A.B.C.D/M</prefix>
    </config>
    <next-hops-interface>
    <next-hop-interface>
      <interface>IFNAME</interface>
      <config>
        <interface>IFNAME</interface>
      </config>
      </enable-global-table-lookup><!-- operation="delete"-->
    </next-hop-interface>
  </next-hops-interface>
</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME global
```

Configure ipv6 prefix

Use this attribute to configure a prefix for an IPv6 static route (e.g. 3ffe:506::/32)

This command is supported when following feature are enabled ipv6 feature

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <ipv6>
  <static-route> <!-- operation="delete"-->
    <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>

```

```

    <config>
      <prefix>X:X::X:X/M</prefix>
    </config>
  </static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X)
```

Configure next-hops-gateway gateway

Use this attribute to configure an IPv6 gateway address for next hop for this destination prefix

This command is supported when following feature are enabled ipv6 feature

Attribute Name: gateway

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
        <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
            <prefix>X:X::X:X/M</prefix>
          </config>
          <next-hops-gateway>
            <next-hop-gateway> <!-- operation="delete"-->
              <gateway>X:X::X:X</gateway>
            </next-hop-gateway>
          </next-hops-gateway>
        </static-route>
      </ipv6>
    </static-routing>
  </network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X
```

Configure next-hop-gateway bfd-state

Use this attribute to set fall-over detection.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: bfd-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
        <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
            <prefix>X:X::X:X/M</prefix>
          </config>
          <next-hops-gateway>
            <next-hop-gateway>
              <gateway>X:X::X:X</gateway>
              <config>
                <gateway>X:X::X:X</gateway>
              </config>
              <bfd-state>disable</bfd-state> <!-- operation="delete"-->
            </next-hop-gateway>
          </next-hops-gateway>
        </static-route>
      </ipv6>
    </static-routing>
  </network-instance>
</network-instances>
```

Command Syntax

```
ipv6 static (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X fall-over-bfd
(disable|enable)
```

Configure distance

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: interface

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
      <static-route>
        <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
        <config>
          <prefix>X:X::X:X/M</prefix>
        </config>
        <next-hops-gateway>
          <next-hop-gateway>
            <gateway>X:X::X:X</gateway>
            <config>
              <gateway>X:X::X:X</gateway>
              <interface>IFNAME</interface> <!-- operation="delete"-->
              <distance>1</distance> <!-- operation="delete"-->
              <track-id>1</track-id> <!-- operation="delete"-->
              </recursive><!-- operation="delete"-->
            </config>
          </next-hop-gateway>
        </next-hops-gateway>
      </static-route>
    </ipv6>
  </static-routing>
</network-instance>
</network-instances>
```

```

        <description>LINE</description> <!-- operation="delete"-->
    </next-hop-gateway>
</next-hops-gateway>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```

ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X IFNAME (<1-255>|)
(track <1-500>|) (recursive|) (description LINE|)

```

Configure next-hop-gateway description

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
      <static-route>
        <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
        <config>
          <prefix>X:X::X:X/M</prefix>
        </config>
      </static-route>
    </ipv6>
  </static-routing>
</network-instance>
</network-instances>

```

```

<next-hops-gateway>
<next-hop-gateway>
  <gateway>X:X::X:X</gateway>
  <config>
    <gateway>X:X::X:X</gateway>
    <distance>1</distance> <!-- operation="delete"-->
    <track-id>1</track-id> <!-- operation="delete"-->
    </recursive><!-- operation="delete"-->
  </config>
  <description>LINE</description> <!-- operation="delete"-->
</next-hop-gateway>
</next-hops-gateway>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```

ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X (<1-255>|) (track
<1-500>|) (recursive|) (description LINE|)

```

Configure next-hop-gateway recursive

Use this attribute to enable recursive resolution for this route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: recursive

Attribute Type: empty

Attribute Name: interface

Attribute Type: string

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  </network-instance>
</network-instances>

```

```

<static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <ipv6>
    <static-route>
      <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
      <config>
        <prefix>X:X::X:X/M</prefix>
      </config>
      <next-hops-gateway>
      <next-hop-gateway>
        <gateway>X:X::X:X</gateway>
        <config>
          <gateway>X:X::X:X</gateway>
          <interface>IFNAME</interface> <!-- operation="delete"-->
          </enable-global-table-lookup><!-- operation="delete"-->
          <track-id>1</track-id> <!-- operation="delete"-->
        </config>
        </recursive><!-- operation="delete"-->
      </next-hop-gateway>
    </next-hops-gateway>
  </static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```

ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X IFNAME global (track
  <1-500>|) (recursive|)

```

Configure next-hop-gateway enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
        <static-route>

```

```

    <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
    <config>
      <prefix>X:X::X:X/M</prefix>
    </config>
    <next-hops-gateway>
    <next-hop-gateway>
      <gateway>X:X::X:X</gateway>
      <config>
        <gateway>X:X::X:X</gateway>
      </config>
      </enable-global-table-lookup><!-- operation="delete"-->
    </next-hop-gateway>
  </next-hops-gateway>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X global
```

Configure next-hops-interface interface

Use this attribute to configure a interface for next hop for this destination prefix

This command is supported when following feature are enabled ipv6 feature

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
      <static-route>
        <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
        <config>
          <prefix>X:X::X:X/M</prefix>
        </config>
        <next-hops-interface>
          <next-hop-interface> <!-- operation="delete"-->
            <interface>IFNAME</interface>

```



```

    <config>
      <interface>IFNAME</interface>
    </config>
  </next-hop-interface>
</next-hops-interface>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME
```

Configure next-hop-interface description

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
      <static-route>
        <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
        <config>
          <prefix>X:X::X:X/M</prefix>
        </config>
        <next-hops-interface>

```

```

    <next-hop-interface>
      <interface>IFNAME</interface>
      <config>
        <interface>IFNAME</interface>
        <distance>1</distance> <!-- operation="delete"-->
        <track-id>1</track-id> <!-- operation="delete"-->
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </next-hop-interface>
  </next-hops-interface>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```

ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME (<1-255>|) (track <1-500>|) (description LINE|)

```

Configure next-hop-interface track-id

Use this attribute to track a object.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
        <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
            <prefix>X:X::X:X/M</prefix>
          </config>
          <next-hops-interface>

```

```

    <next-hop-interface>
      <interface>IFNAME</interface>
      <config>
        <interface>IFNAME</interface>
        </enable-global-table-lookup><!-- operation="delete"-->
      </config>
      <track-id>1</track-id> <!-- operation="delete"-->
    </next-hop-interface>
  </next-hops-interface>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```

ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME global (track <1-500>|)

```

Configure next-hop-interface enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
        <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
            <prefix>X:X::X:X/M</prefix>
          </config>
          <next-hops-interface>
            <next-hop-interface>
              <interface>IFNAME</interface>
              <config>
                <interface>IFNAME</interface>
              </config>
            </next-hop-interface>
          </next-hops-interface>
        </static-route>
      </ipv6>
    </static-routing>
  </network-instance>
</network-instances>

```

```

        </enable-global-table-lookup><!-- operation="delete"-->
    </next-hop-interface>
</next-hops-interface>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME global
```

Configure fib retain

Use this attribute to configure retain time for stale routes (forever or specific time in seconds) in FIB after RIB restarts

Attribute Name: fib-retain

Attribute Type: union

Default Value: 60

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      <fib-retain>60</fib-retain> <!-- operation="delete"-->
    </config>
  </global>
</routing>

```

Command Syntax

```
fib retain (time <1-65535>|forever|)
```

Configure max ecmp paths

Use this attribute to set the maximum number of paths to install in the FIB (Forwarding Information Base) for the ECMP (Equal-Cost MultiPath) feature.

Attribute Name: max-ecmp-paths

Attribute Type: uint8

Default Value: 8

Attribute Range: 1-64

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      <max-ecmp-paths>1</max-ecmp-paths> <!-- operation="delete"-->
    </config>
  </global>

```

```
</routing>
```

Command Syntax

```
maximum-paths <1-64>
```

Configure max static routes

Use this attribute to set the maximum number of static routes.

Attribute Name: max-static-routes

Attribute Type: uint32

Default Value: 4294967294

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      <max-static-routes>1</max-static-routes> <!-- operation="delete"-->
    </config>
  </global>
</routing>
```

Command Syntax

```
max-static-routes <1-4294967294>
```

Configure max fib routes

Use this attribute to set the maximum number of FIB (Forwarding Information Base) routes excluding kernel, connected, and static routes.

Attribute Name: max-fib-routes

Attribute Type: uint32

Attribute Range: 1-16384

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      <max-fib-routes>1</max-fib-routes> <!-- operation="delete"-->
    </config>
  </global>
</routing>
```

Command Syntax

```
max-fib-routes <1-16384>
```

Configure ipv4 enable bfd all interfaces

Use this attribute to enable static BFD on all interfaces.

Attribute Name: ipv4-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      </ipv4-enable-bfd-all-interfaces><!-- operation="delete"-->
    </config>
  </global>
</routing>
```

Command Syntax

```
ip bfd static all-interfaces
```

Configure ipv6 enable bfd all interfaces

Use this attribute to enable ipv6 static BFD on all interfaces.

Attribute Name: ipv6-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <global>
    <config>
      </ipv6-enable-bfd-all-interfaces><!-- operation="delete"-->
    </config>
  </global>
</routing>
```

Command Syntax

```
ipv6 bfd static all-interfaces
```

Configure rib options

Use this attribute to debug the ribd process.

Attribute Name: rib-options

Attribute Type: bits (all|events|packet|packet send|packet rcv|packet detail|packet send detail|packet rcv detail|nsm|bfd|monitor|hal events)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <debug>
    <config>
```

```

    <rib-options>all</rib-options> <!-- operation="delete"-->
</config>
</debug>
</routing>

```

Command Syntax

```

debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
detail|packet recv detail|nsm|bfd|monitor|hal events)

```

Configure ipv4 routing options

Use this attribute to debug ip route.

Attribute Name: ipv4-routing-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
    <ipv4-routing-options>all</ipv4-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>

```

Command Syntax

```

debug ip routing (all|add-route|delete-route|mod-route)

```

Configure ipv6 routing options

Use this attribute to debug ipv6 route.

Attribute Name: ipv6-routing-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
    <ipv6-routing-options>all</ipv6-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>

```

Command Syntax

```

debug ipv6 routing (all|add-route|delete-route|mod-route)

```

Configure source prefix

Use this attribute to configure administrative distance for mroute.

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv4>
      <multicast-routes>
        <multicast-route>
          <protocol-type>default</protocol-type>
          <config>
            <protocol-type>default</protocol-type>
            <source-prefix>A.B.C.D/M</source-prefix>
            <gateway-address>A.B.C.D</gateway-address>
          </config>
          <source-prefix>A.B.C.D/M</source-prefix>
          <distance>0</distance>
        </multicast-route>
      </multicast-routes>
    </ipv4>
  </static-routes>
</routing>
```

Command Syntax

```
ip mroute A.B.C.D/M ((static|rip|ospf|bgp|isis)|) A.B.C.D (<0-255>|)
```

Configure protocol type

Use this attribute to configure administrative distance for mroute.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-mroute

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv6>
      <multicast-routes>
        <multicast-route>
          <protocol-type>default</protocol-type>
```



```

    <config>
      <protocol-type>default</protocol-type>
      <source-prefix>X:X::X:X/M</source-prefix>
    </config>
    <source-prefix>X:X::X:X/M</source-prefix>
  </nexthop>
</config>
  <gateway-mroute>X:X::X:X</gateway-mroute>
  <distance>0</distance>
</config>
</nexthop>
</multicast-route>
</multicast-routes>
</ipv6>
</static-routes>
</routing>

```

Command Syntax

```
ipv6 mroute X:X::X:X/M ((static|rip|ospf|bgp|isis) |) X:X::X:X (<0-255>|)
```

Configure ipv4 enable bfd

Use this attribute to enable or disable Bidirectional Forwarding Detection static routes.

This command is supported when following feature are enabled bfd feature

Attribute Name: ipv4-enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <bfd>
      <config>
        <ipv4-enable-bfd>enable</ipv4-enable-bfd> <!-- operation="delete"-->
      </config>
    </bfd>
  </interface>
</interfaces>
</routing>

```

Command Syntax

```
ip static bfd (enable|disable)
```

Configure ipv6 enable bfd

Use this attribute to enable or disable Bidirectional Forwarding Detection static routes.

This command is supported when following feature are enabled bfd feature

Attribute Name: ipv6-enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <bfd>
      <config>
        <ipv6-enable-bfd>enable</ipv6-enable-bfd> <!-- operation="delete"-->
      </config>
    </bfd>
  </interface>
</interfaces>
</routing>
```

Command Syntax

```
ipv6 static bfd (enable|disable)
```

snmp restart rib

Netconf RPC payload

```
<rib-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
snmp restart rib
```

clear ip route kernel

Netconf RPC payload

```
<clear-ip-stale-kernel-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip route kernel
```

clear ip kernel route

Netconf RPC payload

```
<clear-ip-kernel-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip kernel route
```

clear ipv6 route kernel

Netconf RPC payload

```
<clear-ipv6-stale-kernel-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv6 route kernel
```

clear ip route *

Netconf RPC payload

```
<clear-ip-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip route *
```

clear ip route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ip-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">  
<prefix-address>A.B.C.D/M</prefix-address>  
</clear-ip-route>
```

Command Syntax

```
clear ip route A.B.C.D/M
```

clear ipv4 route *

Netconf RPC payload

```
<clear-ipv4-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv4 route *
```

clear ipv4 route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <prefix-address>A.B.C.D/M</prefix-address>
</clear-ipv4-route>
```

Command Syntax

```
clear ipv4 route A.B.C.D/M
```

clear ipv6 route *

Netconf RPC payload

```
<clear-ipv6-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv6 route *
```

clear ipv6 route X:X::X:X/M

Attribute Name: prefix-ipv6-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <prefix-ipv6-address>X:X::X:X/M</prefix-ipv6-address>
</clear-ipv6-route>
```

Command Syntax

```
clear ipv6 route X:X::X:X/M
```

debug rib (all|events|packet|packet send|packet rcv|packet detail|packet send detail|packet rcv detail|nsm|bfd|monitor|hal events|hal ipc)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet send|packet rcv|packet detail|packet send detail|packet rcv detail|nsm|bfd|monitor|hal events|hal ipc)

Netconf RPC payload

```
<rib-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-on>
```

Command Syntax

```
debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)
```

no debug rib (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Netconf RPC payload

```
<rib-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-off>
```

Command Syntax

```
no debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)
```

debug ip routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv4-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-ipv4-routing-on>
```

Command Syntax

```
debug ip routing (all|add-route|delete-route|mod-route)
```

no debug ip routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv4-routing-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-ipv4-routing-off>
```

Command Syntax

```
no debug ip routing (all|add-route|delete-route|mod-route)
```

debug ipv6 routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv6-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
  <terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-ipv6-routing-on>
```

Command Syntax

```
debug ipv6 routing (all|add-route|delete-route|mod-route)
```

no debug ipv6 routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv6-routing-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rib">
  <terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-ipv6-routing-off>
```

Command Syntax

```
no debug ipv6 routing (all|add-route|delete-route|mod-route)
```

IPI-RIB-VRF

Configure ipv4 enable bfd all interfaces

Use this attribute to enable static BFD on all interfaces.

Attribute Name: ipv4-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
```

```

    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <config>
          </ipv4-enable-bfd-all-interfaces><!-- operation="delete"-->
        </config>
      </global>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
ip bfd vrf NAME static all-interfaces
```

Configure ipv6 enable bfd all interfaces

Use this attribute to enable ipv6 static BFD on all interfaces.

Attribute Name: ipv6-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <config>
          </ipv6-enable-bfd-all-interfaces><!-- operation="delete"-->
        </config>
      </global>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
ipv6 bfd vrf NAME static all-interfaces
```

Configure distance

Use this attribute to configure administrative distance for mroute.

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <multicast-routes>
            <multicast-route>
              <protocol-type>default</protocol-type>
              <config>
                <protocol-type>default</protocol-type>
                <source-prefix>A.B.C.D/M</source-prefix>
                <gateway-address>A.B.C.D</gateway-address>
              </config>
              <source-prefix>A.B.C.D/M</source-prefix>
              <distance>0</distance>
            </multicast-route>
          </multicast-routes>
        </ipv4>
      </static-routes>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
ip mroute vrf NAME A.B.C.D/M ((static|rip|ospf|bgp|isis)|) A.B.C.D (<0-255>|)
```

Configure instance name

Use this attribute to configure administrative distance for mroute.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-mroute

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
  <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
      <ipv6>
        <multicast-routes>
          <multicast-route>
            <protocol-type>default</protocol-type>
            <config>
              <protocol-type>default</protocol-type>
              <source-prefix>X:X::X:X/M</source-prefix>
            </config>
            <source-prefix>X:X::X:X/M</source-prefix>
            <nexthop>
              <config>
                <gateway-mroute>X:X::X:X</gateway-mroute>
                <distance>0</distance>
              </config>
            </nexthop>
          </multicast-route>
        </multicast-routes>
      </ipv6>
    </static-routes>
  </vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 mroute vrf NAME X:X::X:X/M ((static|rip|ospf|bgp|isis)|) X:X::X:X (<0-255>|)
```

Configure max limit

Use this attribute to limit the maximum number of routes to be installed in VRF FIB.

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: limit-action

Attribute Type: enum (stop-install|warning-only)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <config>
            <limit-action>stop-install</limit-action>
            <max-limit>1</max-limit>
          </config>
        </ipv4>
      </maximum-fib-routes>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
maximum-fib-routes ipv4 <1-2147483647> (stop-install|warning-only)
```

Configure warning threshold

Use this attribute to define a percentage of the maximum route limit which when crossed results in a warning message and Netconf notification being raised. Default is 80%.

Attribute Name: warning-threshold

Attribute Type: uint8

Default Value: 80

Attribute Range: 1-100

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <config>

```

```

        <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
    </config>
</ipv4>
</maximum-fib-routes>
</vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
maximum-fib-routes ipv4 threshold <1-100>
```

Configure instance type

Use this attribute to limit the maximum number of routes to be installed in VRF FIB.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: limit-action

Attribute Type: enum (stop-install|warning-only)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv6>
          <config>
            <limit-action>stop-install</limit-action>
            <max-limit>1</max-limit>
          </config>
        </ipv6>
      </maximum-fib-routes>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
maximum-fib-routes ipv6 <1-2147483647> (stop-install|warning-only)
```

Configure ipv6 warning-threshold

Use this attribute to define a percentage of the maximum route limit which when crossed results in a warning message and Netconf notification being raised. Default is 80%.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: warning-threshold

Attribute Type: uint8

Default Value: 80

Attribute Range: 1-100

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv6>
          <config>
            <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
          </config>
        </ipv6>
      </maximum-fib-routes>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
maximum-fib-routes ipv6 threshold <1-100>
```

clear ip route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ip-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-
vrf">
  <vrf-name>NAME</vrf-name>
</clear-ip-vrf-route-all>
```

Command Syntax

```
clear ip route vrf NAME *
```

clear ip route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ip-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">  
<vrf-name>NAME</vrf-name>  
<prefix-address>A.B.C.D/M</prefix-address>  
</clear-ip-vrf-route>
```

Command Syntax

```
clear ip route vrf NAME A.B.C.D/M
```

clear ipv4 route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-  
vrf">  
<vrf-name>NAME</vrf-name>  
</clear-ipv4-vrf-route-all>
```

Command Syntax

```
clear ipv4 route vrf NAME *
```

clear ipv4 route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">  
<vrf-name>NAME</vrf-name>  
<prefix-address>A.B.C.D/M</prefix-address>  
</clear-ipv4-vrf-route>
```

Command Syntax

```
clear ipv4 route vrf NAME A.B.C.D/M
```

clear ipv6 route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
  <vrf-name>NAME</vrf-name>
</clear-ipv6-vrf-route-all>
```

Command Syntax

```
clear ipv6 route vrf NAME *
```

clear ipv6 route vrf NAME X:X::X:X/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-ipv6-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
  <vrf-name>NAME</vrf-name>
  <prefix-ipv6-address>X:X::X:X/M</prefix-ipv6-address>
</clear-ipv6-vrf-route>
```

Command Syntax

```
clear ipv6 route vrf NAME X:X::X:X/M
```

IPI-OSPF

Configure area interface config mode

Use this attribute to set the OSPF area interface mode operation. Enabling this makes OSPF compatible with OpenConfig datamodel.

Attribute Name: area-interface-config-mode

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
  <config>
    </area-interface-config-mode><!-- operation="delete"-->
  </config>
```

```
</global>
</ospfv2>
```

Command Syntax

```
ospf area-interface-config-mode
```

Configure enable multi instance capability

Use this attribute to enable OSPF multiple instances capability.

Attribute Name: enable-multi-instance-capability

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <config>
      </enable-multi-instance-capability><!-- operation="delete"-->
    </config>
  </global>
</ospfv2>
```

Command Syntax

```
enable ext-ospf-multi-inst
```

Configure grace period

Use this attribute to set the grace period for restarting the router OSPF.

This command is supported when following feature are enabled Restart capability

Attribute Name: grace-period

Attribute Type: uint16

Default Value: 120

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <graceful-restart>
      <config>
        <grace-period>2</grace-period> <!-- operation="delete"-->
      </config>
    </graceful-restart>
  </global>
</ospfv2>
```

Command Syntax

```
ospf restart grace-period <2-1800>
```

Configure max grace period

Use this attribute to set the maximum grace period. Act as helper only if received grace-period is less than this value.

This command is supported when following feature are enabled Restart capability

Attribute Name: max-grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <graceful-restart>
      <helper>
        <config>
          <max-grace-period>2</max-grace-period> <!-- operation="delete"-->
        </config>
      </helper>
    </graceful-restart>
  </global>
</ospfv2>
```

Command Syntax

```
ospf restart helper max-grace-period <2-1800>
```

Configure disable all neighbors

Use this attribute to prevent the router OSPF from acting as helper for any neighbor.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-all-neighbors

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <graceful-restart>
      <helper>
        <config>
          </disable-all-neighbors><!-- operation="delete"-->
        </config>
      </helper>
    </graceful-restart>
  </global>
</ospfv2>
```

Command Syntax

```
ospf restart helper never
```

Configure disable neighbor

Use this attribute to set the neighbor router-id for which never act as helper.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <graceful-restart>
    <helper>
    <config>
      <disable-neighbor>A.B.C.D</disable-neighbor> <!-- operation="delete"-->
    </config>
  </helper>
</graceful-restart>
</global>
</ospfv2>
```

Command Syntax

```
ospf restart helper never router-id A.B.C.D
```

Configure tie break method

Use this attribute to set the CSPF (Constrained Shortest Path First) tie-break method.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: tie-break-method

Attribute Type: enum (random|most-fill|least-fill)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <cspf>
    <config>
      <tie-break-method>random</tie-break-method> <!-- operation="delete"-->
    </config>
  </cspf>
</global>
</ospfv2>
```

Command Syntax

```
ospf cspf tie-break (random|most-fill|least-fill)
```

Configure default retry interval

Use this attribute to set the CSPF (Constrained Shortest Path First) default computation retry-interval.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: default-retry-interval

Attribute Type: uint16

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <cspf>
      <config>
        <default-retry-interval>1</default-retry-interval> <!-- operation="delete"-->
      </config>
    </cspf>
  </global>
</ospfv2>
```

Command Syntax

```
ospf cspf default-retry-interval <1-3600>
```

Configure enable better protection

Use this attribute to enable the CSPF (Constrained Shortest Path First) protection type.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: enable-better-protection

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <global>
    <cspf>
      <config>
        </enable-better-protection><!-- operation="delete"-->
      </config>
    </cspf>
  </global>
</ospfv2>
```

Command Syntax

```
ospf cspf enable-better-protection
```

Configure ospf id

Use this attribute to set the OSPF process ID.

Attribute Name: ospf-id

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process> <!-- operation="delete"-->
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
        <vrf-name>WORD</vrf-name>
      </config>
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
router ospf (<0-65535>|) (WORD|)
```

Configure router id

Use this attribute to set a router ID for the OSPF process. Configure each router OSPF with an unique router ID.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
router-id A.B.C.D
```

Configure process router-id

Use this attribute to set a router ID for the OSPF process. Configure each router OSPF with an unique router ID.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
ospf router-id A.B.C.D
```

Configure flood reduction

Use this attribute to enable flood reduction on all OSPF interfaces.

Attribute Name: flood-reduction

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
        </flood-reduction><!-- operation="delete"-->
      </config>
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
ospf flood-reduction
```

Configure rfc1583 compatibility

Use this attribute to restore the method used to calculate summary route costs per RFC 1583.

Attribute Name: rfc1583-compatibility

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
```

```

    <ospf-id>0</ospf-id>
  </config>
  <ospf-id>0</ospf-id>
</config>
</rfc1583-compatibility><!-- operation="delete"-->
</process>
</processes>
</ospfv2>

```

Command Syntax

```
compatible rfc1583
```

Configure database summary

Use this attribute to enable the database summary list optimization.

Attribute Name: database-summary

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      </database-summary><!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>

```

Command Syntax

```
enable db-summary-opt
```

Configure bfd enable all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: bfd-enable-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
</ospfv2>

```

```

    </bfd-enable-all-interfaces><!-- operation="delete"-->
</process>
</processes>
</ospfv2>

```

Command Syntax

```
bfd all-interfaces
```

Configure log adjacency changes

Use this attribute for the router to send a SYSLOG message when an OSPF neighbor goes up or down.

Attribute Name: log-adjacency-changes

Attribute Type: enum (brief|detail)

Default Value: brief

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
        </config>
        <log-adjacency-changes>brief</log-adjacency-changes> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>

```

Command Syntax

```
log-adjacency-changes (brief|detail|)
```

Configure shutdown

Use this attribute to shutdown OSPF process.

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
        </config>
        </shutdown><!-- operation="delete"-->
</process>

```

```
</processes>
</ospfv2>
```

Command Syntax

```
shutdown
```

Configure area border type

Use this attribute to set an OSPF Area Border Router (ABR) type.

Attribute Name: area-border-type

Attribute Type: enum (standard|cisco|ibm|shortcut)

Default Value: cisco

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <area-border-type>cisco</area-border-type> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
ospf abr-type (standard|cisco|ibm|shortcut|)
```

Configure reference bandwidth

Use this attribute to control how OSPF calculates the default metric for the interface.

Attribute Name: reference-bandwidth

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-4294967

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <reference-bandwidth>1</reference-bandwidth> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

```
</processes>
</ospfv2>
```

Command Syntax

```
auto-cost reference-bandwidth <1-4294967>
```

Configure max database descriptors

Use this attribute to limit the number of Database Descriptors (DD) that can be processed concurrently.

Attribute Name: max-database-descriptors

Attribute Type: uint16

Default Value: 64

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <max-database-descriptors>1</max-database-descriptors> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
max-concurrent-dd <1-65535>
```

Configure p2p rfc incompatible

Use this attribute to enable unicast packet on point-point interface.

Attribute Name: p2p-rfc-incompatible

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <p2p-rfc-incompatible><!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```



```
</processes>
</ospfv2>
```

Command Syntax

```
ospf point-point rfc-incompatible
```

Configure context name

Use this attribute to set the SNMP context name for OSPF instance.

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <context-name>WORD</context-name> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
snmp context-name WORD
```

Configure passive interface all

Use this attribute to set all interfaces as passive.

Attribute Name: passive-interface-all

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <passive-interfaces>
      <config>
        </passive-interface-all><!-- operation="delete"-->
      </config>
    </process>
  </processes>
</ospfv2>
```

```
</passive-interfaces>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
passive-interface
```

Configure passive mode

Use this attribute to define the passive mode.

Attribute Name: passive-mode

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <passive-interfaces>
      <passive-interface>
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
        <passive-mode>enable</passive-mode> <!-- operation="delete"-->
      </passive-interface>
    </passive-interfaces>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
passive-interface IFNAME (disable|enable)
```

Configure address

Use this attribute to set interface address as passive.

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: passive-mode

Attribute Type: enum (enable)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<passive-interfaces>
<passive-interface>
  <name>IFNAME</name>
  <config>
    <name>WORD</name>
  </config>
<passive-addresses>
<passive-address> <!-- operation="delete"-->
  <address>A.B.C.D</address>
  <config>
    <address>A.B.C.D</address>
    <passive-mode>enable</passive-mode>
  </config>
</passive-address>
</passive-addresses>
</passive-interface>
</passive-interfaces>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
passive-interface IFNAME A.B.C.D (enable)
```

Configure originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<default-information>

```

```

<config>
  </originate><!-- operation="delete"-->
</config>
</default-information>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
default-information originate
```

Configure route map

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <default-information>
    <config>
      </originate><!-- operation="delete"-->
      </always-advertise-default-route><!-- operation="delete"-->
      <metric>0</metric> <!-- operation="delete"-->
      <metric-type>2</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
    </config>
  </default-information>

```

```

</process>
</processes>
</ospfv2>

```

Command Syntax

```

default-information originate { always| metric <0-16777214>| metric-type (1|2)|
route-map WORD }

```

Configure mpls

Use this attribute to enable MPLS-based segment routing for OSPF.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: mpls

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<segment-routing>
<config>
  </mpls><!-- operation="delete"-->
</config>
</segment-routing>
</process>
</processes>
</ospfv2>

```

Command Syntax

```

segment-routing mpls

```

Configure block range size

Use this attribute to set the segment routing block ending range value.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: block-range-size

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">

```

```

<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<segment-routing>
<global-blocks>
<global-block> <!-- operation="delete"-->
  <block-range-size>16</block-range-size>
  <config>
    <block-range-size>16</block-range-size>
    <block-base-value>16</block-base-value>
  </config>
  <block-base-value>16</block-base-value>
</global-block>
</global-blocks>
</segment-routing>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
ospf segment-routing global block <16-1048575> <16-1048575>
```

Configure disable receive

Use this attribute to enable or disable receiving prefix SID mappings from a mapping server.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: disable-receive

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<segment-routing>
<prefix-sid-map>
<config>
  </disable-receive><!-- operation="delete"-->
</config>
</prefix-sid-map>
</segment-routing>
</process>

```

```
</processes>
</ospfv2>
```

Command Syntax

```
segment-routing prefix-sid-map receive disable
```

Configure advertise local

Use this attribute to advertise local mapping server entries to other routers in the segment routing domain.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: advertise-local

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <segment-routing>
    <prefix-sid-map>
      <config>
        </advertise-local><!-- operation="delete"-->
      </config>
    </prefix-sid-map>
  </segment-routing>
</ospfv2>
```

Command Syntax

```
segment-routing prefix-sid-map advertise-local
```

Configure disable cspf

Use this attribute to enable the CSPF (Constrained Shortest Path First) feature. The default value for CSPF is enabled.

Attribute Name: disable-cspf

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        </disable-cspf>
      </config>
    </process>
  </processes>
</ospfv2>
```

```

        <ospf-id>0</ospf-id>
    </config>
</capability>
<config>
    </disable-cspf><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
no capability cspf
```

Configure disable traffic engineering

Use this attribute to enable OSPF Traffic Engineering feature.

Attribute Name: disable-traffic-engineering

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <config>
    </disable-traffic-engineering><!-- operation="delete"-->
  </config>
</ospfv2>

```

Command Syntax

```
no capability traffic-engineering
```

Configure disable graceful restart

Graceful OSPF Restart.

Attribute Name: disable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```



```

<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<capability>
<config>
  </disable-graceful-restart><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
no capability restart graceful
```

Configure disable opaque lsa

Use this attribute to enable opaque-LSAs which are Type 9, 10 and 11 LSAs.

Attribute Name: disable-opaque-lsa

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<capability>
<config>
  </disable-opaque-lsa><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
no capability opaque
```

Configure enable vrf lite

Use this attribute to enable VRF-lite feature.

Attribute Name: enable-vrf-lite

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <capability>
      <config>
        </enable-vrf-lite><!-- operation="delete"-->
      </config>
    </capability>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
capability vrf-lite
```

Configure link local signaling

Use this attribute to enable link-local signaling feature.

Attribute Name: link-local-signaling

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <capability>
      <config>
        </link-local-signaling><!-- operation="delete"-->
      </config>
    </capability>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
capability lls
```

Configure maximum areas number

Use this attribute to set the maximum number of OSPF areas (excluding Backbone Area).

Attribute Name: maximum-areas-number

Attribute Type: uint32

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <config>
      <maximum-areas-number>1</maximum-areas-number> <!-- operation="delete"-->
    </config>
  </areas>
</ospfv2>
```

Command Syntax

```
maximum-area <1-4294967294>
```

Configure authentication type

Use this attribute to set the area authentication type.

Attribute Name: authentication-type

Attribute Type: enum (authentication|authentication message-digest)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
    </area>
  </areas>
</ospfv2>
```

```

        <authentication-type>authentication</authentication-type> <!--
operation="delete"-->
    </area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) (authentication|authentication message-digest)
```

Configure default cost

Use this attribute to set the summary-default cost of a NSSA or stub area.

Attribute Name: default-cost

Attribute Type: uint32

Attribute Range: 0-16777215

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
        <default-cost>0</default-cost> <!-- operation="delete"-->
      </config>
    </area>
  </areas>
</ospfv2>

```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) default-cost <0-16777215>
```

Configure shortcut

Use this attribute to set the area shortcutting mode.

Attribute Name: shortcut

Attribute Type: enum (default|enable|disable)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) shortcut (default|enable|disable)
```

Configure name

Use this attribute to set the interface to enable OSPF area.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
</process>
</processes>
</ospfv2>

```

```

    </config>
  </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME
```

Configure cost

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <cost>1</cost> <!-- operation="delete"-->
        </interface>
      </interfaces>
    </area>
  </areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME cost <1-65535>
```

Configure network type

Use this attribute to set the area interface network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>WORD</name>
            </config>
            <network-type>point-to-point</network-type> <!-- operation="delete"-->
          </interface>
        </interfaces>
      </config>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area interface IFNAME network-type (point-to-point|broadcast|non-broadcast|point-
to-multipoint|point-to-multipoint non-broadcast)
```

Configure passive

Use this attribute to set area interface as passive.

Attribute Name: passive

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          </passive><!-- operation="delete"-->
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>

```

Command Syntax

```
area interface IFNAME passive
```

Configure priority

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
</ospfv2>

```



```

<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <interfaces>
  <interface>
    <name>IFNAME</name>
    <config>
      <name>WORD</name>
    </config>
    <priority>0</priority> <!-- operation="delete"-->
  </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME priority <0-255>
```

Configure area id

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <interfaces>
  <interface>
    <name>IFNAME</name>
    <config>
      <name>WORD</name>
    </config>
  </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

```

        </config>
        <authentication-type>simple</authentication-type> <!--
operation="delete"-->
    </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME authentication (null|message-digest|)
```

Configure enabled

Use this attribute to enable Bidirectional Forwarding Detection (BFD).

This command is supported when following feature are enabled Bidirectional Forwarding Detection (BFD)

Attribute Name: enabled

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
</process>
</processes>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
        <area-id>OSPF_AREA_T</area-id>
    </config>
    <interfaces>
    <interface>
        <name>IFNAME</name>
        <config>
            <name>WORD</name>
        </config>
        <enable-bfd>
        <config>
            <enabled>enable</enabled> <!-- operation="delete"-->
        </config>
        </enable-bfd>
    </interface>
    </interfaces>
    </area>

```

```

</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME bfd (disable|)
```

Configure filter out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <lsa-filter>
            <config>
              </filter-out><!-- operation="delete"-->
            </config>
          </lsa-filter>
        </interface>
      </interfaces>
    </area>
  </areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area interface IFNAME database-filter all out
```

Configure traffic engineering metric

Use this attribute to set the minimum delay in milliseconds between accepting the same LSA from neighbors.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <mpls>
            <config>
              <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
            </config>
          </mpls>
        </interface>
      </interfaces>
    </area>
  </areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME te-metric <1-65535>
```

Configure ldp igp sync enable

Use this attribute to enable the MPLS LDP IGP SYNC on OSPF.

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <mpls>
            <igp-ldp-sync>
              <config>
                </ldp-igp-sync-enable><!-- operation="delete"-->
              </config>
            </igp-ldp-sync>
          </mpls>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area interface IFNAME mpls ldp-igp sync ospf
```

Configure holddown timer

Use this attribute to configure the hold-down timer for which OSPF will wait for LDP to converge and advertises Max cost. When the configured time expires, OSPF starts advertising the actual cost in the Router-LSA.

Attribute Name: holddown-timer

Attribute Type: uint32

Default Value: 70000

Attribute Range: 1-2147483

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <mpls>
            <igp-ldp-sync>
              <config>
                <ldp-igp-sync-enable><!-- operation="delete"-->
                <holddown-timer>1</holddown-timer> <!-- operation="delete"-->
              </config>
            </igp-ldp-sync>
          </mpls>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area interface IFNAME mpls ldp-igp sync ospf holddown-timer <1-2147483>
```

Configure dead interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <timers>
            <config>
              <dead-interval>1</dead-interval> <!-- operation="delete"-->
            </config>
          </timers>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area interface IFNAME dead-interval <1-65535>
```

Configure hello interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <timers>
            <config>
              <hello-interval>1</hello-interval> <!-- operation="delete"-->
            </config>
          </timers>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area interface IFNAME hello-interval <1-65535>
```

Configure retransmission interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <timers>
            <config>
              <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
            </config>
          </timers>
        </interface>
      </interfaces>
    </area>
  </areas>
</ospfv2>

```

Command Syntax

```
area interface IFNAME retransmit-interval <1-3600>
```

Configure no summary

Use this attribute to set the OSPF area stub with no-summary, this will prevent an ABR from sending summary link state advertisements into the stub area.

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: is-stub

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```

<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <stub>
  <config>
    </is-stub><!-- operation="delete"-->
    </no-summary><!-- operation="delete"-->
  </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area stub no-summary
```

Configure is stub

Use this attribute to set the OSPF area as stub.

Attribute Name: is-stub

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <stub>
  <config>

```

```

        </is-stub><!-- operation="delete"-->
    </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area stub
```

Configure nssa enable

Use this attribute to enable the OSPF area as NSSA.

This command is supported when following feature are enabled Not-So-Stubby Area (NSSA)

Attribute Name: nssa-enable

Attribute Type: enum (nssa)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <nssas>
        <nssa> <!-- operation="delete"-->
          <nssa-enable>nssa</nssa-enable>
          <config>
            <nssa-enable>nssa</nssa-enable>
          </config>
        </nssa>
      </nssas>
    </area>
  </areas>
</ospfv2>

```

Command Syntax

```
area (nssa)
```

Configure stability interval

Use this attribute to set route-map instance.

This command is supported when following feature are enabled Not-So-Stubby Area (NSSA)

Attribute Name: route-map

Attribute Type: string

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: stability-interval

Attribute Type: uint32

Default Value: 40

Attribute Range: 0-2147483647

Attribute Name: translator-role

Attribute Type: enum (never|always|candidate)

Attribute Name: no-redistribution

Attribute Type: empty

Attribute Name: default-information-originate

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
    </area>
  </areas>
  <nssas>
    <nssa>
```

```

    <nssa-enable>nssa</nssa-enable>
  <config>
    <nssa-enable>nssa</nssa-enable>
    </no-summary>
    <stability-interval>0</stability-interval>
    <translator-role>never</translator-role>
    </no-redistribution>
    </default-information-originate>
    <metric>0</metric>
    <metric-type>2</metric-type>
  </config>
  <route-map>WORD</route-map>
</nssa>
</nssas>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```

area (nssa) { no-summary| stability-interval <0-2147483647>| translator-role
  (never|always|candidate)| no-redistribution| default-information-originate|
  metric <0-16777214>| metric-type (1|2)| route-map WORD }

```

Configure filter-in name

Use this attribute to set name of the prefix list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <filter-list>
        <prefix-list>
          <filter-in>

```

```

    <config>
      <name>WORD</name> <!-- operation="delete"-->
    </config>
  </filter-in>
</prefix-list>
</filter-list>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area filter-list prefix WORD in
```

Configure filter-out name

Use this attribute to set name of the prefix list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
        </config>
      <areas>
        <area>
          <area-id>OSPF_AREA_T</area-id>
          <config>
            <area-id>OSPF_AREA_T</area-id>
            </config>
            <filter-list>
              <prefix-list>
                <filter-out>
                  <config>
                    <name>WORD</name> <!-- operation="delete"-->
                  </config>
                </filter-out>
              </prefix-list>
            </filter-list>
          </area>
        </areas>
      </process>
    </processes>
  </ospfv2>

```

```
</ospfv2>
```

Command Syntax

```
area filter-list prefix WORD out
```

Configure filter-in name

Use this attribute to set name of the access control list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
        <filter-list>
          <access-control-list>
            <filter-in>
              <config>
                <name>WORD</name> <!-- operation="delete"-->
              </config>
            </filter-in>
          </access-control-list>
        </filter-list>
      </config>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area filter-list access WORD in
```

Configure filter-out name

Use this attribute to set name of the access control list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <filter-list>
        <access-control-list>
          <filter-out>
            <config>
              <name>WORD</name> <!-- operation="delete"-->
            </config>
          </filter-out>
        </access-control-list>
      </filter-list>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area filter-list access WORD out
```

Configure ip address

Use this attribute to set the OSPF area ID.

Attribute Name: area-id

Attribute Type: inet:ipv4-address

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
```



```

    <config>
      <ospf-id>0</ospf-id>
    </config>
  </areas>
<area> <!-- operation="delete"-->
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <hosts>
    <host>
      <ip-address>A.B.C.D</ip-address>
    </host>
  </hosts>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
host A.B.C.D area
```

Configure host cost

Use this attribute to set the stub host cost.

Attribute Name: cost

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <hosts>
        <host>
          <ip-address>A.B.C.D</ip-address>
          <config>
            <ip-address>A.B.C.D</ip-address>
          </config>
        </host>
      </hosts>
    </area>
  </areas>
</ospfv2>

```

```

        </config>
        <cost>0</cost>
    </host>
</hosts>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
host A.B.C.D area cost <0-65535>
```

Configure instance id

Use this attribute to set the instance ID. Use this command with OSPF multiple-instance support enabled.

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <networks>
        <network>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
            <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          </config>
          <instance-id>0</instance-id>
        </network>
      </networks>
    </area>
  </areas>
</ospfv2>

```

Command Syntax

```
network (A.B.C.D/M|A.B.C.D A.B.C.D) area (instance-id <0-255>|)
```

Configure area-ranges address

Use this attribute to summarize routes matching address/mask (border routers only).

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <area-ranges>
        <area-range> <!-- operation="delete"-->
          <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
          <config>
            <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
          </config>
        </area-range>
      </area-ranges>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area range (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure disable advertise

Use this attribute to disable the advertisement of these routes.

Attribute Name: disable-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```

<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
</process>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <area-ranges>
  <area-range>
    <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    <config>
      <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    </config>
    </disable-advertise><!-- operation="delete"-->
  </area-range>
</area-ranges>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area range (A.B.C.D/M|A.B.C.D A.B.C.D) not-advertise
```

Configure remote router id

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: remote-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
</process>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
</area>
</areas>
</ospfv2>

```

```

</config>
<virtual-links>
<virtual-link> <!-- operation="delete"-->
  <remote-router-id>A.B.C.D</remote-router-id>
  <config>
    <remote-router-id>A.B.C.D</remote-router-id>
  </config>
</virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area virtual-link A.B.C.D
```

Configure fall over

Fall-over detection with Bidirectional Forwarding Detection (BFD).

Attribute Name: fall-over

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
<virtual-links>
<virtual-link>
  <remote-router-id>A.B.C.D</remote-router-id>
  <config>
    <remote-router-id>A.B.C.D</remote-router-id>
  </config>
  <bfd>
    <config>
      </fall-over><!-- operation="delete"-->
    </config>
  </bfd>

```

```

</virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area virtual-link A.B.C.D fall-over bfd
```

Configure key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
<areas>
<area>
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
  </config>
  <virtual-links>
  <virtual-link>
    <remote-router-id>A.B.C.D</remote-router-id>
    <config>
      <remote-router-id>A.B.C.D</remote-router-id>
    </config>
    <authentication>
    <config>
      <key>WORD</key> <!-- operation="delete"-->
    </config>
    </authentication>
  </virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area virtual-link A.B.C.D authentication-key WORD
```

Configure authentication authentication-type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <authentication>
            <config>
              <authentication-type>simple</authentication-type> <!--
operation="delete"-->
            </config>
          </authentication>
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv2>
```

Command Syntax

```
area virtual-link A.B.C.D authentication (null|message-digest|)
```

Configure message digest id

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <authentication>
            <message-digests>
              <message-digest> <!-- operation="delete"-->
                <message-digest-id>1</message-digest-id>
                <config>
                  <message-digest-id>1</message-digest-id>
                  <message-digest-encryption-type>md5</message-digest-encryption-type>
                  <message-digest-key>WORD</message-digest-key>
                </config>
              </message-digest>
            </message-digests>
          </authentication>
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv2>
```


Command Syntax

```
area virtual-link A.B.C.D message-digest-key <1-255> (md5) WORD
```

Configure transmit delay

Dead router detection time. Interval during which no packets are received and after which the router acknowledges a neighboring router as off-line.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
    </area>
  </areas>
  <virtual-links>
    <virtual-link>
      <remote-router-id>A.B.C.D</remote-router-id>
      <config>
        <remote-router-id>A.B.C.D</remote-router-id>
      </config>
    </virtual-link>
  </virtual-links>
  <timers>
```

```

    <config>
        <hello-interval>1</hello-interval> <!-- operation="delete"-->
        <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
        <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
        <dead-interval>1</dead-interval> <!-- operation="delete"-->
    </config>
</timers>
</virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```

area virtual-link A.B.C.D { dead-interval <1-65535>| hello-interval <1-65535>|
    transmit-delay <1-3600>| retransmit-interval <1-3600> }

```

Configure destination id

Use this attribute to set the destination IP address of sham link.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF), Multi-Protocol Label Switching (MPLS)

Attribute Name: destination-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <sham-links>
        <sham-link> <!-- operation="delete"-->
          <destination-id>A.B.C.D</destination-id>
          <config>
            <destination-id>A.B.C.D</destination-id>
            <source-id>A.B.C.D</source-id>
          </config>
        </sham-link>
      </sham-links>
    </area>
  </areas>
</ospfv2>

```

```

        <source-id>A.B.C.D</source-id>
    </sham-link>
</sham-links>
</area>
</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area sham-link A.B.C.D A.B.C.D
```

Configure source id

Use this attribute to set the sham link cost.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF), Multi-Protocol Label Switching (MPLS)

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
      <sham-links>
        <sham-link>
          <destination-id>A.B.C.D</destination-id>
          <config>
            <destination-id>A.B.C.D</destination-id>
            <source-id>A.B.C.D</source-id>
          </config>
          <source-id>A.B.C.D</source-id>
          <cost>1</cost> <!-- operation="delete"-->
        </sham-link>
      </sham-links>
    </area>
  </areas>
</ospfv2>

```

```

</areas>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
area sham-link A.B.C.D A.B.C.D cost <1-65535>
```

Configure limit type

Use this attribute to set the limit type. Soft limit: Warning message appears if the number of LSAs exceeds the specified value; Hard limit: Shutdown occurs if the number of LSAs exceeds the specified value. Default value is 2.

Attribute Name: limit-type

Attribute Type: enum (soft|hard)

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <lsdb>
    <overflow>
      <normal-lsa>
        <config>
          <max-limit>0</max-limit>
          <limit-type>hard</limit-type>
        </config>
      </normal-lsa>
    </overflow>
  </lsdb>
</ospfv2>

```

Command Syntax

```
overflow database <0-4294967294> ((soft|hard|))
```

Configure exit interval

Use this attribute to set the number of seconds the router waits before trying to exit the database overflow state. If this parameter is 0, the router exits the overflow state only after an explicit administrator command. Default value is 0.

This command is supported when following feature are enabled OSPF DataBase (DB) overflow

Attribute Name: exit-interval

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <lsdb>
    <overflow>
    <external-lsa>
    <config>
      <max-limit>0</max-limit>
      <exit-interval>0</exit-interval>
    </config>
    </external-lsa>
    </overflow>
    </lsdb>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
overflow database external <0-2147483647> <0-65535>
```

Configure keep all paths

Use this attribute to enable fast rerouting on all OSPF interfaces.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: keep-all-paths

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
```

```

        <ospf-id>0</ospf-id>
    </config>
</lfa>
<fast-reroute>
<config>
    </keep-all-paths><!-- operation="delete"-->
</config>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
fast-reroute keep-all-paths
```

Configure remote lfa areas

Use this attribute to set remote-lfa for OSPF area.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: remote-lfa-areas

Attribute Type: union

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
</lfa>
<fast-reroute>
<config>
    <remote-lfa-areas>OSPF_AREA_T</remote-lfa-areas>
</config>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
fast-reroute per-prefix remote-lfa area (A.B.C.D|<0-4294967295>) tunnel mpls-ldp
```

Configure fast-reroute route-map

Use this attribute to set route-map for FRR.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <lfa>
      <fast-reroute>
        <config>
          <route-map>WORD</route-map> <!-- operation="delete"-->
        </config>
      </fast-reroute>
    </lfa>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute per-prefix route-map WORD
```

Configure idx

Use this attribute to set the tie breaking index. A lower value has higher preference.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: idx

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <lfa>
      <fast-reroute>
        <tie-breaks>
          <tie-break>
            <type>primary-path</type>
          </tie-break>
        </tie-breaks>
      </fast-reroute>
    </lfa>
  </process>
</processes>
</ospfv2>
```

```

    <config>
      <type>primary-path</type>
    </config>
    <idx>1</idx> <!-- operation="delete"-->
  </tie-break>
</tie-breaks>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>

```

Command Syntax

```

fast-reroute tie-break (primary-path|node-protecting|interface-disjoint|broadcast-
interface-disjoint|downstream-path|secondary-path) index <1-255>

```

Configure topologies-independent-lfa area-id

Use this attribute to set the OSPF area ID.

This command is supported when following feature are enabled OSPF topology independent Loop Free Alternate (LFA), OSPF Loop Free Alternate (LFA)

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <lfa>
    <fast-reroute>
    <topologies-independent-lfa>
    <topology-independent-lfa> <!-- operation="delete"-->
      <area-id>OSPF_AREA_T</area-id>
      <config>
        <area-id>OSPF_AREA_T</area-id>
      </config>
    </topology-independent-lfa>
    </topologies-independent-lfa>
    </fast-reroute>
    </lfa>
  </process>
</processes>
</ospfv2>

```


Command Syntax

```
fast-reroute per-prefix ti-lfa area (A.B.C.D|<0-4294967295>)
```

Configure default distance

Use this attribute to specifies a default administrative distance used when no other specification exists for a routing information source.

Attribute Name: default-distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <administrative-distance>
      <config>
        <default-distance>1</default-distance> <!-- operation="delete"-->
      </config>
    </administrative-distance>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
distance <1-255>
```

Configure intra area distance

Use this attribute to set the distance for all routes within an area.

Attribute Name: intra-area-distance

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: inter-area-distance

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: external-routes-distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <administrative-distance>
        <ospf>
          <config>
            <inter-area-distance>1</inter-area-distance> <!-- operation="delete"-->
            <external-routes-distance>1</external-routes-distance> <!--
operation="delete"-->
            <intra-area-distance>1</intra-area-distance> <!-- operation="delete"-->
          </config>
        </ospf>
      </administrative-distance>
    </process>
  </processes>
</ospfv2>

```

Command Syntax

```
distance ospf { intra-area <1-255>| inter-area <1-255>| external <1-255> }
```

Configure access control list

Use this attribute to specifies administrative distance network ACL.

Attribute Name: access-control-list

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <administrative-distance>
        <networks>
          <network>
            <prefix>A.B.C.D/M</prefix>
          <config>
            <prefix>A.B.C.D/M</prefix>
          </config>
        </networks>
      </administrative-distance>
    </process>
  </processes>
</ospfv2>

```

```

    <distance>1</distance>
  </config>
  <access-control-list>WORD</access-control-list>
</network>
</networks>
</administrative-distance>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
distance <1-255> A.B.C.D/M (WORD|)
```

Configure summary-addresses address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <summary-addresses>
      <summary-address> <!-- operation="delete"-->
        <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
      <config>
        <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
      </config>
    </summary-address>
  </summary-addresses>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
summary-address (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure not advertise

Use this attribute to suppress routes that match the address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <summary-addresses>
      <summary-address>
        <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
        <config>
          <address>A.B.C.D/M</address>
        </config>
        </not-advertise><!-- operation="delete"-->
      </summary-address>
    </summary-addresses>
  </process>
</processes>
</ospfv2>

```

Command Syntax

```
summary-address (A.B.C.D/M|A.B.C.D A.B.C.D) not-advertise
```

Configure tag

Use this attribute to set the tag value to use as a match value for controlling redistribution via route maps.

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <summary-addresses>
      <summary-address>
        <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
        <config>
          <address>A.B.C.D/M</address>
          <tag>0</tag> <!-- operation="delete"-->
        </config>
      </summary-address>
    </summary-addresses>
  </process>
</processes>
</ospfv2>

```

```

</summary-addresses>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
summary-address (A.B.C.D/M|A.B.C.D A.B.C.D) tag <0-4294967295>
```

Configure filter-in access-control-list

Use this attribute to set the access control list name in distribution list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <distributed-list>
      <filter-in>
        <config>
          <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
        </config>
      </filter-in>
    </distributed-list>
  </process>
</processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD in
```

Configure access control list isis

Use this attribute to set the access control list name for ISIS protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-isis

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>

```

```

<process>
  <ospf-id>0</ospf-id>
  <config>
    <ospf-id>0</ospf-id>
  </config>
</distribute-list>
<filter-out>
<config>
  <access-control-list-isis>WORD</access-control-list-isis> <!--
operation="delete"-->
</config>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD out isis
```

Configure access control list bgp

Use this attribute to set the access control list name for BGP protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-bgp

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
  <process>
    <ospf-id>0</ospf-id>
    <config>
      <ospf-id>0</ospf-id>
    </config>
  </distribute-list>
  <filter-out>
  <config>
    <access-control-list-bgp>WORD</access-control-list-bgp> <!--
operation="delete"-->
  </config>
  </filter-out>
  </distribute-list>
  </process>
  </processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD out bgp
```

Configure access control list rip

Use this attribute to set the access control list name for RIP protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-rip

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <distribute-list>
        <filter-out>
          <config>
            <access-control-list-rip>WORD</access-control-list-rip> <!--
operation="delete"-->
          </config>
        </filter-out>
      </distribute-list>
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
distribute-list WORD out rip
```

Configure access control list static

Use this attribute to set the access control list name for static routes.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-static

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <distribute-list>
        <filter-out>
```

```

    <config>
      <access-control-list-static>WORD</access-control-list-static> <!--
operation="delete"-->
    </config>
  </filter-out>
</distribute-list>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD out static
```

Configure access control list connected

Use this attribute to set the access control list name for connected networks.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-connected

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <distributed-list>
    <filter-out>
    <config>
      <access-control-list-connected>WORD</access-control-list-connected> <!--
operation="delete"-->
    </config>
  </filter-out>
</distributed-list>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD out connected
```

Configure access control list kernel

Use this attribute to set the access control list name for KERNEL routes.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-kernel

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <distribute-list>
        <filter-out>
          <config>
            <access-control-list-kernel>WORD</access-control-list-kernel> <!--
operation="delete"-->
          </config>
        </filter-out>
      </distribute-list>
    </process>
  </processes>
</ospfv2>
```

Command Syntax

```
distribute-list WORD out kernel
```

Configure ospf process id

Use this attribute to set the OSPF ID in distribution list filter out.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: access-control-list-out-ospf

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <distribute-list>
        <filter-out>
          <ospfv2-processes>
            <ospfv2-process>
              <ospf-process-id>0</ospf-process-id>
```

```

    <config>
      <ospf-process-id>0</ospf-process-id>
      <access-control-list-out-ospf>WORD</access-control-list-out-ospf> <!--
operation="delete"-->
    </config>
  </ospfv2-process>
</ospfv2-processes>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
distribute-list WORD out ospf (<0-65535>|)
```

Configure primary domain id address

Use this attribute to set the domain ID in IPv4 address format.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: primary-domain-id-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <domain-id>
        <primary-domain>
          <config>
            <primary-domain-id-address>A.B.C.D</primary-domain-id-address> <!--
operation="delete"-->
          </config>
        </primary-domain>
      </domain-id>
    </process>
  </processes>
</ospfv2>

```

Command Syntax

```
domain-id A.B.C.D
```

Configure primary domain id hex

Use this attribute to set domain ID in hexadecimal.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: primary-domain-id-hex

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <domain-id>
      <primary-domain>
        <hexes>
          <hex> <!-- operation="delete"-->
            <primary-domain-id-hex>HEX_DATA</primary-domain-id-hex>
            <config>
              <primary-domain-id-hex>OSPF_DOMAIN_ID_HEX_STRING_T</primary-domain-id-hex>
              <primary-hex-type>type-as</primary-hex-type>
            </config>
            <primary-hex-type>type-as</primary-hex-type>
          </hex>
        </hexes>
      </primary-domain>
    </domain-id>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
domain-id type (type-as|type-as4|type-back-comp|type-ip) value HEX_DATA
```

Configure secondary domain id address

Use this attribute to set the secondary domain ID in IPv4 address format.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: secondary-domain-id-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
```

```

<domain-id>
<secondary-domain>
<addresses>
<address> <!-- operation="delete"-->
    <secondary-domain-id-address>A.B.C.D</secondary-domain-id-address>
    <config>
        <secondary-domain-id-address>A.B.C.D</secondary-domain-id-address>
    </config>
</address>
</addresses>
</secondary-domain>
</domain-id>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
domain-id A.B.C.D secondary
```

Configure secondary domain id hex

Use this attribute to set secondary domain ID in hexadecimal.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: secondary-domain-id-hex

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<domain-id>
<secondary-domain>
<hexes>
<hex> <!-- operation="delete"-->
    <secondary-domain-id-hex>HEX_DATA</secondary-domain-id-hex>
    <config>
        <secondary-domain-id-hex>OSPF_DOMAIN_ID_HEX_STRING_T</secondary-domain-id-
hex>
        <secondary-hex-type>type-as</secondary-hex-type>
    </config>
        <secondary-hex-type>type-as</secondary-hex-type>
    </hex>
</hexes>
</secondary-domain>
</domain-id>

```

```

</process>
</processes>
</ospfv2>

```

Command Syntax

```
domain-id type (type-as|type-as4|type-back-comp|type-ip) value HEX_DATA secondary
```

Configure bgp-link-state enabled

Use this attribute to distribute linkstate and TE Database to BGP.

This command is supported when following feature are enabled Border Gateway Protocol (BGP) Link State

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <distributed>
    <bgp-link-state>
      <config>
        </enabled><!-- operation="delete"-->
      </config>
    </bgp-link-state>
  </distributed>
</ospfv2>

```

Command Syntax

```
distribute bgp-ls
```

Configure throttle timer

Use this attribute to set interval between processing LS DB.

This command is supported when following feature are enabled Border Gateway Protocol (BGP) Link State

Attribute Name: throttle-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 5-20

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <distributed>
    <bgp-link-state>
      <config>
        </enabled><!-- operation="delete"-->
        <throttle-timer>5</throttle-timer> <!-- operation="delete"-->
      </config>
    </bgp-link-state>
  </distributed>
</ospfv2>

```

Command Syntax

```
distributed bgp-ls throttle <5-20>
```

Configure neighbors address

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <neighbors>
    <neighbor> <!-- operation="delete"-->
      <address>A.B.C.D</address>
      <config>
        <address>A.B.C.D</address>
      </config>
    </neighbor>
  </neighbors>
</ospfv2>

```

Command Syntax

```
neighbor A.B.C.D
```

Configure poll interval

Use this attribute to set the router cost for point-to-multipoint neighbor.

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-255

Attribute Name: poll-interval

Attribute Type: uint32

Default Value: 120

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <neighbors>
    <neighbor>
      <address>A.B.C.D</address>
      <config>
        <address>A.B.C.D</address>
        <priority>0</priority> <!-- operation="delete"-->
        <poll-interval>1</poll-interval> <!-- operation="delete"-->
      </config>
    </neighbor>
  </neighbors>
</ospfv2>
```

Command Syntax

```
neighbor A.B.C.D { cost <1-65535>| priority <0-255>| poll-interval <1-2147483647> }
```

Configure termination hold interval

Use this attribute to set the LFA termination hold on interval. It represents the delay of primary route installation (to avoid micro loop) after a failover.

Attribute Name: termination-hold-interval

Attribute Type: uint32

Default Value: 6000

Attribute Range: 100-100000

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <lfa>
    <config>
      <termination-hold-interval>100</termination-hold-interval> <!--
operation="delete"-->
    </config>
  </lfa>
</ospfv2>
```

Command Syntax

```
fast-reroute terminate-hold-on interval <100-100000>
```

Configure min arrival interval

Use this attribute to set the minimum interval to accept the same link-state advertisement (LSA) from OSPF neighbors.

Attribute Name: min-arrival-interval

Attribute Type: uint32

Default Value: 1000

Attribute Range: 0-600000

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
</ospfv2>
```



```

    </config>
  <timers>
    <lsa>
      <config>
        <min-arrival-interval>0</min-arrival-interval> <!-- operation="delete"-->
      </config>
    </lsa>
  </timers>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
timers lsa arrival <0-600000>
```

Configure max delay

Use this attribute to set the maximum wait time in milliseconds between generation of the same LSA.

Attribute Name: max-delay

Attribute Type: uint32

Attribute Range: 1-600000

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <timers>
      <lsa>
        <delays>
          <delay> <!-- operation="delete"-->
            <max-delay>1</max-delay>
            <config>
              <max-delay>1</max-delay>
              <min-delay>1</min-delay>
              <start-delay>0</start-delay>
            </config>
            <min-delay>1</min-delay>
            <start-delay>0</start-delay>
          </delay>
        </delays>
      </lsa>
    </timers>
  </process>
</processes>
</ospfv2>

```

Command Syntax

```
timers throttle lsa all <0-600000> <1-600000> <1-600000>
```

Configure min delay

Use this attribute to set the maximum delay between receiving a change to SPF calculation.

Attribute Name: max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Attribute Name: min-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <spf>
    <delay>
      <config>
        <min-delay>0</min-delay>
        <max-delay>0</max-delay>
      </config>
    </delay>
  </spf>
</ospfv2>
```

Command Syntax

```
timers spf exp <0-2147483647> <0-2147483647>
```

Configure default metric

Use this attribute to set a default metric for OSPF. A default metric facilitates redistributing routes with incompatible metrics. If the metrics do not convert, the default metric provides an alternative. Use this attribute to use the same metric value for all redistributed routes. Use this attribute in conjunction with the redistribute command.

Attribute Name: default-metric

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-16777214

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <redistribute>
    <config>
      <default-metric>1</default-metric> <!-- operation="delete"-->
    </config>
  </redistribute>
</ospfv2>
```

Command Syntax

```
default-metric <1-16777214>
```

Configure protocol

This attribute redistributes routes from a routing protocol, static route, or kernel route into an OSPF routing table.

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|ospf|bgp|isis)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <redistribute>
    <routing-protocols>
      <routing-protocol> <!-- operation="delete"-->
        <protocol>connected</protocol>
        <config>
          <protocol>connected</protocol>
        </config>
      </routing-protocol>
    </routing-protocols>
  </redistribute>
</ospfv2>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp|isis)
```

Configure metric

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <redistribute>
    <routing-protocols>
      <routing-protocol>
        <protocol>connected</protocol>
        <config>
          <protocol>connected</protocol>
          <metric-type>1</metric-type> <!-- operation="delete"-->
          <route-map>WORD</route-map> <!-- operation="delete"-->
          <tag>0</tag> <!-- operation="delete"-->
        </config>
        <metric>0</metric> <!-- operation="delete"-->
      </routing-protocol>
    </routing-protocols>
  </redistribute>
</ospfv2>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp|isis) { metric <0-16777214>| metric-
  type (1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospf-processes ospf-process-id

This attribute redistributes routes from an instance of OSPF into another OSPF routing table.

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <redistribute>
    <ospf-process> <!-- operation="delete"-->
      <ospf-process-id>0</ospf-process-id>
      <config>
        <ospf-process-id>0</ospf-process-id>
      </config>
    </ospf-process>
  </redistribute>
</ospfv2>
```

Command Syntax

```
redistribute ospf <0-65535>
```

Configure metric type

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <ospf-processes>
    <ospf-process>
      <ospf-process-id>0</ospf-process-id>
      <config>
        <ospf-process-id>0</ospf-process-id>
        <metric-type>1</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
        <tag>0</tag> <!-- operation="delete"-->
      </config>
      <metric>0</metric> <!-- operation="delete"-->
    </ospf-process>
  </ospf-processes>
</ospfv2>

```

Command Syntax

```

redistribute ospf <0-65535> { metric <0-16777214>| metric-type (1|2)| route-map
WORD| tag <0-4294967295> }

```

Configure isis process id

This attribute redistributes routes from an instance of IS-IS into an OSPF routing table.

Attribute Name: isis-process-id

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <isis-processes>
    <isis-process> <!-- operation="delete"-->
      <isis-process-id>WORD</isis-process-id>
    </isis-process>
  </isis-processes>
</ospfv2>

```

```

        <isis-process-id>WORD</isis-process-id>
    </config>
</isis-process>
</isis-processes>
</redistribute>
</process>
</processes>
</ospfv2>

```

Command Syntax

```
redistribute isis WORD
```

Configure isis-process metric

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    </process>
  </processes>
  <isis-processes>
    <isis-process>
      <isis-process-id>WORD</isis-process-id>
      <config>
        <isis-process-id>WORD</isis-process-id>
        <metric-type>1</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
        <tag>0</tag> <!-- operation="delete"-->
      </config>
      <metric>0</metric> <!-- operation="delete"-->
    </isis-process>
  </isis-processes>
</ospfv2>

```

```

</isis-processes>
</redistribute>
</process>
</processes>
</ospfv2>

```

Command Syntax

```

redistribute isis WORD { metric <0-16777214>| metric-type (1|2)| route-map WORD|
tag <0-4294967295> }

```

Configure include stub

Use this attribute to set the metric of a stub link in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: include-stub

Attribute Type: empty

Attribute Name: enable-max-router-lsa

Attribute Type: empty

Attribute Name: max-external-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: max-summary-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <max-metric>
      <config>
        </enable-max-router-lsa>
        <max-external-lsa>1</max-external-lsa>
        <max-summary-lsa>1</max-summary-lsa>
        </include-stub>
      </config>
    </max-metric>
  </process>
</processes>
</ospfv2>

```


Command Syntax

```
max-metric router-lsa { external-lsa (<1-16777215>|)| summary-lsa (<1-16777215>|)|
include-stub }
```

Configure enable max router lsa

Use this attribute to set the metric in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: enable-max-router-lsa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <max-metric>
      <config>
        </enable-max-router-lsa>
      </config>
    </max-metric>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
max-metric router-lsa
```

Configure on startup include stub

Use this attribute to set the metric of a stub link in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: on-startup-include-stub

Attribute Type: empty

Attribute Name: max-on-startup

Attribute Type: uint32

Attribute Range: 5-86400

Attribute Name: max-on-startup-external-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: max-on-startup-summary-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <max-metric-on-startup>
      <config>
        <max-on-startup>5</max-on-startup>
        <max-on-startup-external-lsa>1</max-on-startup-external-lsa>
        <max-on-startup-summary-lsa>1</max-on-startup-summary-lsa>
        </on-startup-include-stub>
      </config>
    </max-metric-on-startup>
  </process>
</processes>
</ospfv2>
```

Command Syntax

```
max-metric router-lsa on-startup <5-86400> { external-lsa (<1-16777215>|)| summary-
  lsa (<1-16777215>|)| include-stub }
```

Configure max on startup

Use this attribute to set the metric for router LSA on-startup for the transit link to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: max-on-startup

Attribute Type: uint32

Attribute Range: 5-86400

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
    <max-metric-on-startup>
      <config>
        <max-on-startup>5</max-on-startup>
      </config>
    </max-metric-on-startup>
```

```

</process>
</processes>
</ospfv2>

```

Command Syntax

```
max-metric router-lsa on-startup <5-86400>
```

Configure entropy capability

Use this attribute to enable segment routing entropy label.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: entropy-capability

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
    <process>
      <ospf-id>0</ospf-id>
      <config>
        <ospf-id>0</ospf-id>
      </config>
      <capability-entropy>
        <config>
          </entropy-capability><!-- operation="delete"-->
        </config>
      </capability-entropy>
    </process>
  </processes>
</ospfv2>

```

Command Syntax

```
segment-routing entropy-label
```

Configure teName

Use this attribute to set the OSPF TE metric.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE), Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <traffic-engineering-links>

```

```

<traffic-engineering-link>
  <teName>WORD</teName>
  <config>
    <teName>WORD</teName>
  </config>
  <metric>1</metric> <!-- operation="delete"-->
</traffic-engineering-link>
</traffic-engineering-links>
</ospfv2>

```

Command Syntax

```
te-metric <1-65535>
```

Configure link local exchange

Use this attribute to enable OSPF TE link local exchange.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE), Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: link-local-exchange

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <traffic-engineering-links>
    <traffic-engineering-link>
      <teName>WORD</teName>
      <config>
        <teName>WORD</teName>
      </config>
      </link-local-exchange><!-- operation="delete"-->
    </traffic-engineering-link>
  </traffic-engineering-links>
</ospfv2>

```

Command Syntax

```
enable-te-link-local
```

Configure ospfv2-processes area-id

Use this attribute to set OSPF area ID in which te-flooding is enabled.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE), Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```

<traffic-engineering-links>
<traffic-engineering-link>
  <teName>WORD</teName>
  <config>
    <teName>WORD</teName>
  </config>
</flooding>
<ospfv2-processes>
<ospfv2-process> <!-- operation="delete"-->
  <area-id>OSPF_AREA_T</area-id>
  <config>
    <area-id>OSPF_AREA_T</area-id>
    <ospf-process-id>0</ospf-process-id>
  </config>
  <ospf-process-id>0</ospf-process-id>
</ospfv2-process>
</ospfv2-processes>
</flooding>
</traffic-engineering-link>
</traffic-engineering-links>
</ospfv2>

```

Command Syntax

```
te-flooding ospf <0-65535> area (A.B.C.D|<0-4294967295>)
```

Configure ospfv2-processes ospf-process-id

Use this attribute to set the OSPF process ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<multi-area-interfaces>
<multi-area-interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<ospfv2-processes>
<ospfv2-process> <!-- operation="delete"-->
  <ospf-process-id>0</ospf-process-id>
  <config>
    <ospf-process-id>0</ospf-process-id>
  </config>
</ospfv2-process>

```

```

</ospfv2-processes>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf <0-65535>
```

Configure multi-areas area-id

Use this attribute to set the OSPF area ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<multi-area-interfaces>
<multi-area-interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>
<ospfv2-process>
  <ospf-process-id>0</ospf-process-id>
  <config>
    <ospf-process-id>0</ospf-process-id>
  </config>
</ospfv2-process>
</ospfv2-processes>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf <0-65535> multi-area (A.B.C.D|<0-4294967295>)
```

Configure neighbor

Use this attribute to set the OSPF area ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: area-id

Attribute Type: union

Attribute Name: neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <multi-area-interfaces>
    <multi-area-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </multi-area-interface>
  </multi-area-interfaces>
  <ospfv2-processes>
    <ospfv2-process>
      <ospf-process-id>0</ospf-process-id>
      <config>
        <ospf-process-id>0</ospf-process-id>
      </config>
      <multi-areas-neighbors>
        <multi-area-neighbor> <!-- operation="delete"-->
          <area-id>OSPF_AREA_T</area-id>
          <config>
            <area-id>OSPF_AREA_T</area-id>
            <neighbor>A.B.C.D</neighbor>
          </config>
        </multi-area-neighbor>
      </multi-areas-neighbors>
    </ospfv2-process>
  </ospfv2-processes>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf <0-65535> multi-area (A.B.C.D|<0-4294967295>) neighbor A.B.C.D
```

Configure rate limit

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty
Attribute Name: segment-routing
Attribute Type: empty
Attribute Name: route
Attribute Type: bits (spf|ia|ase|install|spf-terse)
Attribute Name: rib
Attribute Type: bits (interface|redistribute)
Attribute Name: nsm
Attribute Type: bits (interface|redistribute)
Attribute Name: nfsm
Attribute Type: bits (status|events|timers)
Attribute Name: lsa
Attribute Type: bits (generate|flooding|install|refresh|maxage)
Attribute Name: ifsm
Attribute Type: bits (status|events|timers)
Attribute Name: events
Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)
Attribute Name: cspf-events
Attribute Type: empty
Attribute Name: cspf-hexdump
Attribute Type: empty
Attribute Name: retransmission
Attribute Type: empty
Attribute Name: distribute
Attribute Type: empty
Attribute Name: topology-independent-lfa
Attribute Type: empty
Attribute Name: lfa
Attribute Type: empty
Attribute Name: policy
Attribute Type: empty
Attribute Name: redistribute
Attribute Type: bits (detail|terse)
Attribute Name: graceful-restart
Attribute Type: bits (detail|terse)
Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
  </bfd><!-- operation="delete"-->
  </segment-routing><!-- operation="delete"-->
  <route>spf</route> <!-- operation="delete"-->
  <rib>interface</rib> <!-- operation="delete"-->
  <nsm>interface</nsm> <!-- operation="delete"-->
  <nfsm>status</nfsm> <!-- operation="delete"-->
  <lsa>generate</lsa> <!-- operation="delete"-->
  <ifsm>status</ifsm> <!-- operation="delete"-->
  <events>abr</events> <!-- operation="delete"-->
  </cspf-events><!-- operation="delete"-->
  </cspf-hexdump><!-- operation="delete"-->
  </retransmission><!-- operation="delete"-->
  </distribute><!-- operation="delete"-->
  </topology-independent-lfa><!-- operation="delete"-->
  </lfa><!-- operation="delete"-->
  </policy><!-- operation="delete"-->
  <redistribute>detail</redistribute> <!-- operation="delete"-->
  <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
  <packet-hello>send</packet-hello> <!-- operation="delete"-->
  <packet-dd>send</packet-dd> <!-- operation="delete"-->
  <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
  <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
  <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
  </rate-limit><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf
```

Configure bfd

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: segment-routing

Attribute Type: empty

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Attribute Name: cspf-events

Attribute Type: empty

Attribute Name: cspf-hexdump

Attribute Type: empty

Attribute Name: retransmission

Attribute Type: empty

Attribute Name: distribute

Attribute Type: empty

Attribute Name: topology-independent-lfa

Attribute Type: empty

Attribute Name: lfa

Attribute Type: empty

Attribute Name: policy

Attribute Type: empty

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
  </bfd><!-- operation="delete"-->
  </segment-routing><!-- operation="delete"-->
  <route>spf</route> <!-- operation="delete"-->
  <rib>interface</rib> <!-- operation="delete"-->
  <nsm>interface</nsm> <!-- operation="delete"-->
  <nfsm>status</nfsm> <!-- operation="delete"-->
  <lsm>generate</lsm> <!-- operation="delete"-->
  <ifsm>status</ifsm> <!-- operation="delete"-->
  <events>abr</events> <!-- operation="delete"-->
  </cspf-events><!-- operation="delete"-->
  </cspf-hexdump><!-- operation="delete"-->
  </retransmission><!-- operation="delete"-->
  </distribute><!-- operation="delete"-->
  </topology-independent-lfa><!-- operation="delete"-->
  </lfa><!-- operation="delete"-->
  </policy><!-- operation="delete"-->
  <redistribute>detail</redistribute> <!-- operation="delete"-->
  <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
  <packet-hello>send</packet-hello> <!-- operation="delete"-->
  <packet-dd>send</packet-dd> <!-- operation="delete"-->
  <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
  <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
  <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
  </rate-limit><!-- operation="delete"-->
</config>
</debug>
```

```
</ospfv2>
```

Command Syntax

```
debug ospf all
```

Configure retransmission

Use this attribute to enable OSPF Debug retransmission information debug.

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: distribute

Attribute Type: empty

Attribute Name: topology-independent-lfa

Attribute Type: empty

Attribute Name: lfa

Attribute Type: empty

Attribute Name: policy

Attribute Type: empty

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </distribute><!-- operation="delete"-->
      </topology-independent-lfa><!-- operation="delete"-->
      </lfa><!-- operation="delete"-->
      </policy><!-- operation="delete"-->
      <redistribute>detail</redistribute> <!-- operation="delete"-->
      <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
      </retransmission><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf all
```

Configure cspf events

Use this attribute to enable CSPF Information debug.

Attribute Name: cspf-events

Attribute Type: uint8

Attribute Name: cspf-hexdump

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </cspf-hexdump><!-- operation="delete"-->
      </cspf-events><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug cspf all
```

Configure debug bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD) debug.

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </bfd><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf bfd
```

Configure debug rate-limit

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </rate-limit><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

```

</config>
</debug>
</ospfv2>

```

Command Syntax

```
debug ospf database-timer rate-limit
```

Configure segment routing

Use this attribute to enable Segment Routing debug.

Attribute Name: segment-routing

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </segment-routing><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>

```

Command Syntax

```
debug ospf sr
```

Configure route

Use this attribute to enable OSPF route information debug.

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <route>spf</route> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>

```

Command Syntax

```
debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

Configure rib

Use this attribute to enable OSPF RIB information debug.

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <rib>interface</rib> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf rib ({interface|redistribute|})
```

Configure nsm

Use this attribute to enable OSPF NSM information debug.

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <nsm>interface</nsm> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf nsm ({interface|redistribute|})
```

Configure nfsm

Use this attribute to enable OSPF Neighbor State Machine debug.

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <nfsm>status</nfsm> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf nfsm ({status|events|timers}|)
```

Configure lsa

Use this attribute to enable OSPF Link State Advertisement debug.

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <lsa>generate</lsa> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

Configure ifsm

Use this attribute to enable OSPF Interface State Machine debug.

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <ifsm>status</ifsm> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf ifsm ({status|events|timers}|)
```

Configure events

Use this attribute to enable OSPF events information debug.

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
  <events>abr</events> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

Configure debug cspf-events

Use this attribute to enable CSPF Information debug.

Attribute Name: cspf-events

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
  </cspf-events><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug cspf events
```

Configure cspf hexdump

Use this attribute to enable CSPF message hexdump debug.

Attribute Name: cspf-hexdump

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
  </cspf-hexdump><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug cspf hexdump
```

Configure debug retransmission

Use this attribute to enable OSPF Debug retransmission information debug.

Attribute Name: retransmission

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </retransmission><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf retransmission
```

Configure distribute

Use this attribute to enable OSPF distribute linkstate details debug.

Attribute Name: distribute

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </distribute><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf dist-ls
```

Configure topology independent lfa

Use this attribute to enable Topology Independent LFA debug.

Attribute Name: topology-independent-lfa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </topology-independent-lfa><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

```
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf tilfa
```

Configure lfa

Use this attribute to enable OSPF LFA route install details debug.

Attribute Name: lfa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </lfa><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf lfa
```

Configure policy

Use this attribute to enable OSPF policy information debug.

Attribute Name: policy

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      </policy><!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf policy
```

Configure redistribute

Use this attribute to enable OSPF redistribute information debug.

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <redistribute>detail</redistribute> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf redistribute ({detail|terse}|)
```

Configure graceful restart

Use this attribute to enable OSPF graceful-restart debug.

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf graceful-restart ({detail|terse}|)
```

Configure packet hello

OSPF Hello

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <packet-hello>send</packet-hello> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet hello ({send|recv|detail|})
```

Configure packet dd

OSPF Database Description

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <packet-dd>send</packet-dd> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet dd ({send|recv|detail|})
```

Configure packet ls request

OSPF Link State Request

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-request ({send|recv|detail|})
```

Configure packet ls update

OSPF Link State Update

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-update ({send|recv|detail}|)
```

Configure packet ls ack

OSPF Link State Acknowledgment

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <debug>
    <config>
      <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-ack ({send|recv|detail}|)
```

clear ip ospf <0-65535> process

Attribute Name: process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf RPC payload

```
<ospfv2-clear-process xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <process-id>0</process-id>
</ospfv2-clear-process>
```

Command Syntax

```
clear ip ospf <0-65535> process
```

clear ip ospf process

Netconf RPC payload

```
<ospfv2-clear-process-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
clear ip ospf process
```

restart ip ospf graceful (grace-period <2-1800>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf RPC payload

```
<ospfv2-restart-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <grace-period>2</grace-period>
</ospfv2-restart-graceful>
```

Command Syntax

```
restart ip ospf graceful (grace-period <2-1800>|)
```

snmp restart ospf

Netconf RPC payload

```
<ospfv2-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
snmp restart ospf
```

debug ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ospf-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf all
```

no debug ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ospf-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf all
```

debug ospf bfd

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf bfd
```

no debug ospf bfd

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-bfd-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf bfd
```

debug ospf database-timer rate-limit

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rate-limit-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf database-timer rate-limit
```

no debug ospf database-timer rate-limit

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rate-limit-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf database-timer rate-limit
```

debug ospf sr

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-sr-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf sr
```

no debug ospf sr

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-sr-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf sr
```

debug ospf route ({spf|ia|ase|install|spf-terse}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-route-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <route>spf</route>
</ipi-ospf-debug_ospfv2-terminal-debug-route-on>
```

Command Syntax

```
debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

no debug ospf route ({spf|ia|ase|install|spf-terse}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-route-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <route>spf</route>
</ipi-ospf-debug_ospfv2-terminal-debug-route-off>
```

Command Syntax

```
no debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

debug ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rib-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <rib>interface</rib>
</ipi-ospf-debug_ospfv2-terminal-debug-rib-on>
```

Command Syntax

```
debug ospf rib ({interface|redistribute}|)
```

no debug ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rib-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <rib>interface</rib>
</ipi-ospf-debug_ospfv2-terminal-debug-rib-off>
```

Command Syntax

```
no debug ospf rib ({interface|redistribute}|)
```

debug ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <all>send</all>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-all-on>
```

Command Syntax

```
debug ospf packet ({send|recv|detail}|)
```

no debug ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <all>send</all>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-all-off>
```

Command Syntax

```
no debug ospf packet ({send|recv|detail}|)
```

debug ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <hello>send</hello>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-on>
```

Command Syntax

```
debug ospf packet hello ({send|recv|detail}|)
```

no debug ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <hello>send</hello>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-off>
```

Command Syntax

```
no debug ospf packet hello ({send|recv|detail}|)
```

debug ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <dd>send</dd>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-on>
```

Command Syntax

```
debug ospf packet dd ({send|recv|detail}|)
```

no debug ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <dd>send</dd>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-off>
```

Command Syntax

```
no debug ospf packet dd ({send|recv|detail}|)
```

debug ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <ls-request>send</ls-request>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-on>
```

Command Syntax

```
debug ospf packet ls-request ({send|recv|detail}|)
```

no debug ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <ls-request>send</ls-request>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-off>
```

Command Syntax

```
no debug ospf packet ls-request ({send|recv|detail}|)
```

debug ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <ls-update>send</ls-update>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-on>
```

Command Syntax

```
debug ospf packet ls-update ({send|recv|detail}|)
```

no debug ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <ls-update>send</ls-update>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-off>
```

Command Syntax

```
no debug ospf packet ls-update ({send|recv|detail}|)
```

debug ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <ls-ack>send</ls-ack>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-on>
```

Command Syntax

```
debug ospf packet ls-ack ({send|recv|detail}|)
```

no debug ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <ls-ack>send</ls-ack>  
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-off>
```

Command Syntax

```
no debug ospf packet ls-ack ({send|recv|detail}|)
```

debug ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <nsm>interface</nsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nsm-on>
```

Command Syntax

```
debug ospf nsm ({interface|redistribute}|)
```

no debug ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <nsm>interface</nsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nsm-off>
```

Command Syntax

```
no debug ospf nsm ({interface|redistribute}|)
```

debug ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nfsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <nfsm>status</nfsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nfsm-on>
```

Command Syntax

```
debug ospf nfsm ({status|events|timers}|)
```

no debug ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nfsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <nfsm>status</nfsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nfsm-off>
```

Command Syntax

```
no debug ospf nfsm ({status|events|timers}|)
```

debug ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-lsa-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <lsa>generate</lsa>
</ipi-ospf-debug_ospfv2-terminal-debug-lsa-on>
```

Command Syntax

```
debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

no debug ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-lsa-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <lsa>generate</lsa>
</ipi-ospf-debug_ospfv2-terminal-debug-lsa-off>
```

Command Syntax

```
no debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

debug ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ifsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <ifsm>status</ifsm>
</ipi-ospf-debug_ospfv2-terminal-debug-ifsm-on>
```

Command Syntax

```
debug ospf ifsm ({status|events|timers}|)
```

no debug ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ifsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
  <ifsm>status</ifsm>
</ipi-ospf-debug_ospfv2-terminal-debug-ifsm-off>
```

Command Syntax

```
no debug ospf ifsm ({status|events|timers}|)
```

debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-events-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <events>abr</events>
</ipi-ospf-debug_ospfv2-terminal-debug-events-on>
```

Command Syntax

```
debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

no debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-events-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <events>abr</events>
</ipi-ospf-debug_ospfv2-terminal-debug-events-off>
```

Command Syntax

```
no debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

debug cspf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug cspf all
```

no debug cspf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-all-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug cspf all
```

debug cspf events

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-events-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug cspf events
```

no debug cspf events

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-events-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug cspf events
```

debug cspf hexdump

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-hexdump-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug cspf hexdump
```

no debug cspf hexdump

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-cspf-hexdump-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug cspf hexdump
```

debug ip ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-all-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf all
```

no debug ip ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf all
```

debug ip ospf retransmission

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-retransmission-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf retransmission
```

no debug ip ospf retransmission

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-retransmission-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf retransmission
```

debug ip ospf dist-ls

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-dist-ls-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf dist-ls
```

no debug ip ospf dist-ls

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-dist-ls-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf dist-ls
```

debug ip ospf tilfa

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-topology-independent-lfa-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf tilfa
```

no debug ip ospf tilfa

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-topology-independent-lfa-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf tilfa
```

debug ip ospf lfa

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-lfa-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf lfa
```

no debug ip ospf lfa

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-lfa-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf lfa
```

debug ip ospf policy

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-policy-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf policy
```

no debug ip ospf policy

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-policy-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf policy
```

debug ip ospf redistribute ({detail|terse})

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-redistribute-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <redistribute>detail</redistribute>  
</ipi-ospf-debug_ospfv2-terminal-debug-redistribute-on>
```

Command Syntax

```
debug ip ospf redistribute ({detail|terse})
```

no debug ip ospf redistribute ({detail|terse})

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-redistribute-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospf">  
  <redistribute>detail</redistribute>  
</ipi-ospf-debug_ospfv2-terminal-debug-redistribute-off>
```

Command Syntax

```
no debug ip ospf redistribute ({detail|terse})
```

debug ip ospf graceful-restart ({detail|terse})

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <graceful-restart>detail</graceful-restart>
</ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-on>
```

Command Syntax

```
debug ip ospf graceful-restart ({detail|terse})
```

no debug ip ospf graceful-restart ({detail|terse})

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <graceful-restart>detail</graceful-restart>
</ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-off>
```

Command Syntax

```
no debug ip ospf graceful-restart ({detail|terse})
```

IPI-OSPF-INTERFACE

Configure cost

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
```

```
</config>
  <cost>1</cost> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf cost <1-65535>
```

Configure priority

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <priority>0</priority> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf priority <0-255>
```

Configure mtu ignore

Use this attribute to configure OSPF so that it does not check the MTU size during DD (Database Description) exchange.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</ospfv2>
```

```

    </config>
    </mtu-ignore><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf mtu-ignore
```

Configure network type

Use this attribute to set the interface network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <network-type>point-to-point</network-type> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf network (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-
to-multipoint non-broadcast)
```

Configure disable all ospf

Use this attribute to completely disable OSPF packet processing on an interface.

Attribute Name: disable-all-ospf

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    </disable-all-ospf><!-- operation="delete"-->
</interface>

```

```
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf disable all
```

Configure traffic engineering metric

Use this attribute to set the minimum delay in milliseconds between accepting the same LSA from neighbors.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
te-metric <1-65535>
```

Configure mtu

Use this attribute to set MTU size for OSPF to construct packets based on this value.

Attribute Name: mtu

Attribute Type: uint16

Default Value: 576

Attribute Range: 576-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mtu>576</mtu> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>
```



```

</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf mtu <576-65535>
```

Configure enable flood reduction

Use this attribute to enable flood reduction on an interface.

Attribute Name: enable-flood-reduction

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-flood-reduction><!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf flood-reduction
```

Configure enable demand circuit

Use this attribute to enable Hello Suppression and LSA Suppression sent on OSPF interface.

Attribute Name: enable-demand-circuit

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-demand-circuit><!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf demand-circuit
```

Configure enable bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD).

Attribute Name: enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf bfd (disable|)
```

Configure disable fast reroute

Use this attribute to prohibit the interface from being used as the next hop in a repair path.

Attribute Name: disable-fast-reroute

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </disable-fast-reroute><!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf fast-reroute per-prefix candidate disable
```

Configure key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <authentication>
        <config>
          <key>WORD</key> <!-- operation="delete"-->
        </config>
      </authentication>
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf authentication-key WORD
```

Configure authentication type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <authentication>
        <config>
          <authentication-type>simple</authentication-type> <!--
operation="delete"-->
        </config>
      </authentication>
    </interface>
  </interfaces>
```

```
</ospfv2>
```

Command Syntax

```
ip ospf authentication (null|message-digest|)
```

Configure message digest id

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <authentication>
        <message-digests>
          <message-digest> <!-- operation="delete"-->
            <message-digest-id>1</message-digest-id>
            <config>
              <message-digest-id>1</message-digest-id>
              <message-digest-encryption-type>md5</message-digest-encryption-type>
              <message-digest-key>WORD</message-digest-key>
            </config>
          </message-digest>
        </message-digests>
      </authentication>
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf message-digest-key <1-255> (md5) WORD
```

Configure filter out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too

much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <database-filter>
    <lsa>
      <config>
        </filter-out><!-- operation="delete"-->
      </config>
    </lsa>
  </database-filter>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf database-filter all out
```

Configure dead interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <timers>
    <config>
      <dead-interval>1</dead-interval> <!-- operation="delete"-->
    </config>
  </timers>
</interface>
</interfaces>
</ospfv2>
```

```

</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf dead-interval <1-65535>
```

Configure hello interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    </config>
    <timers>
    <config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
    </config>
  </timers>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf hello-interval <1-65535>
```

Configure retransmission interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <timers>
  <config>
    <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
  </config>
</timers>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf retransmit-interval <1-3600>
```

Configure transmit delay

Use this attribute to set the estimated time it takes to transmit a link-state-update packet on the interface.

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <timers>
  <config>
    <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
  </config>
</timers>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf transmit-delay <1-3600>
```

Configure resync timeout

Use this attribute to configure the interval after which adjacency is reset if oob-resync is not started.

Attribute Name: resync-timeout

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <timers>
        <config>
          <resync-timeout>1</resync-timeout> <!-- operation="delete"-->
        </config>
      </timers>
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf resync-timeout <1-65535>
```

Configure ldp igp sync enable

Use this attribute to enable the MPLS LDP IGP SYNC on OSPF.

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <timers>
        <config>
          <ldp-igp-sync-enable><!-- operation="delete"-->
        </config>
      </timers>
    </interface>
  </interfaces>
</ospfv2>
```



```

</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
mpls ldp-igp sync ospf
```

Configure holddown timer

Use this attribute to configure the hold-down timer for which OSPF will wait for LDP to converge and advertises Max cost. When the configured time expires, OSPF starts advertising the actual cost in the Router-LSA.

Attribute Name: holddown-timer

Attribute Type: uint32

Default Value: 70000

Attribute Range: 1-2147483

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    </config>
    <timers>
    <config>
      </ldp-igp-sync-enable><!-- operation="delete"-->
      <holddown-timer>1</holddown-timer> <!-- operation="delete"-->
    </config>
    </timers>
  </interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
mpls ldp-igp sync ospf holddown-timer <1-2147483>
```

Configure name

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
    <cost>1</cost> <!-- operation="delete"-->
  </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D cost <1-65535>
```

Configure interface address

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
    <priority>0</priority> <!-- operation="delete"-->
  </address>

```

```

</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D priority <0-255>
```

Configure address mtu-ignore

Use this attribute to configure OSPF so that it does not check the MTU size during DD (Database Description) exchange.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
    </mtu-ignore><!-- operation="delete"-->
  </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D mtu-ignore
```

Configure authentication key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>

```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
    <address>
      <interface-address>A.B.C.D</interface-address>
      <config>
        <interface-address>A.B.C.D</interface-address>
      </config>
      <authentication>
        <config>
          <key>WORD</key> <!-- operation="delete"-->
        </config>
      </authentication>
    </address>
  </addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D authentication-key WORD
```

Configure authentication authentication-type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <addresses>
        <address>
          <interface-address>A.B.C.D</interface-address>
          <config>
            <interface-address>A.B.C.D</interface-address>
          </config>
          <authentication>
            <config>
              <authentication-type>simple</authentication-type> <!--
operation="delete"-->

```

```

    </config>
  </authentication>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D authentication (null|message-digest|)
```

Configure message digest encryption type

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <addresses>
        <address>
          <interface-address>A.B.C.D</interface-address>
          <config>
            <interface-address>A.B.C.D</interface-address>
          </config>
          <authentication>
            <message-digests>
              <message-digest> <!-- operation="delete"-->
                <message-digest-id>1</message-digest-id>
                <config>
                  <message-digest-id>1</message-digest-id>
                  <message-digest-encryption-type>md5</message-digest-encryption-type>
                  <message-digest-key>WORD</message-digest-key>
                </config>
              </message-digest>
            </message-digests>
          </authentication>
        </address>
      </addresses>
    </interface>
  </interfaces>
</ospfv2>

```

```

</authentication>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D message-digest-key <1-255> (md5) WORD
```

Configure timers dead-interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
    <timers>
    <config>
      <dead-interval>1</dead-interval> <!-- operation="delete"-->
    </config>
    </timers>
  </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D dead-interval <1-65535>
```

Configure timers hello-interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <addresses>
        <address>
          <interface-address>A.B.C.D</interface-address>
          <config>
            <interface-address>A.B.C.D</interface-address>
          </config>
          <timers>
            <config>
              <hello-interval>1</hello-interval> <!-- operation="delete"-->
            </config>
          </timers>
        </address>
      </addresses>
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D hello-interval <1-65535>
```

Configure timers retransmission-interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
    <timers>
    <config>
      <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
    </config>
    </timers>
  </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D retransmit-interval <1-3600>
```

Configure timers transmit-delay

Use this attribute to set the estimated time it takes to transmit a link-state-update packet on the interface.

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <addresses>
  <address>
    <interface-address>A.B.C.D</interface-address>
    <config>
      <interface-address>A.B.C.D</interface-address>
    </config>
  </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```



```

    <timers>
    <config>
        <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
    </config>
</timers>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D transmit-delay <1-3600>
```

Configure timers resync-timeout

Use this attribute to configure the interval after which adjacency is reset if oob-resync is not started.

Attribute Name: resync-timeout

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <addresses>
    <address>
        <interface-address>A.B.C.D</interface-address>
        <config>
            <interface-address>A.B.C.D</interface-address>
        </config>
        <timers>
        <config>
            <resync-timeout>1</resync-timeout> <!-- operation="delete"-->
        </config>
        </timers>
    </address>
</addresses>
</interface>
</interfaces>
</ospfv2>

```

Command Syntax

```
ip ospf A.B.C.D resync-timeout <1-65535>
```

Configure lsa filter-out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <addresses>
        <address>
          <interface-address>A.B.C.D</interface-address>
          <config>
            <interface-address>A.B.C.D</interface-address>
          </config>
          <database-filter>
            <lsa>
              <config>
                <filter-out><!-- operation="delete"-->
              </config>
            </lsa>
          </database-filter>
        </address>
      </addresses>
    </interface>
  </interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D database-filter all out
```

IPI-OSPFV3

Configure display route on single line

Use this attribute to display the output of the show ipv6 ospf route command with each route entry in a singleline.

Attribute Name: display-route-on-single-line

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <config>
      </display-route-on-single-line><!-- operation="delete"-->
    </config>
  </global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf display route single-line
```

Configure grace period

Use this attribute to enable the graceful restart feature and set the grace period for restarting the router

This command is supported when following feature are enabled Restart capability

Attribute Name: grace-period

Attribute Type: uint16

Default Value: 120

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <graceful-restart>
      <config>
        <grace-period>2</grace-period> <!-- operation="delete"-->
      </config>
    </graceful-restart>
  </global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart grace-period <2-1800>
```

Configure controlled restarts only

Use this attribute to enable the graceful restart controlled restarts only for the router

This command is supported when following feature are enabled Restart capability

Attribute Name: controlled-restarts-only

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <graceful-restart>
      <config>
        </controlled-restarts-only><!-- operation="delete"-->
      </config>
    </graceful-restart>
  </global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart planned-only
```

Configure max grace period

Use this attribute to set the maximum grace period to act as helper. i.e Help only if received grace-period is less than set value.

This command is supported when following feature are enabled Restart capability

Attribute Name: max-grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <graceful-restart>
      <helper>
        <config>
          <max-grace-period>2</max-grace-period> <!-- operation="delete"-->
        </config>
      </helper>
    </graceful-restart>
  </global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper max-grace-period <2-1800>
```

Configure disable all neighbors

Use this attribute to set disable acting as helper for all neighbors.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-all-neighbors

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <graceful-restart>
    <helper>
    <config>
      </disable-all-neighbors><!-- operation="delete"-->
    </config>
  </helper>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper never
```

Configure disable neighbor

Use this attribute to set disable acting as helper for specified neighbor.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <global>
    <graceful-restart>
    <helper>
    <config>
      <disable-neighbor>A.B.C.D</disable-neighbor> <!-- operation="delete"-->
    </config>
  </helper>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper never router-id A.B.C.D
```

Configure ospfv3 id

Use this attribute to set the OSPFv3 process ID

Attribute Name: ospfv3-id

Attribute Type: string

Attribute Range: 0-254

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process> <!-- operation="delete"-->
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
        <vrf-name>WORD</vrf-name>
      </config>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
router ipv6 ospf (WORD|) (WORD|)
```

Configure vrf name

VRF Name to associate with this instance

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <vrf-name>WORD</vrf-name>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
router ipv6 vrf ospf WORD
```

Configure router id

Use this attribute to set a router ID for the OSPFv3 process. Configure each router OSPFv3 with an unique router ID

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
```

```

<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
  <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>

```

Command Syntax

```
router-id A.B.C.D
```

Configure bfd enable all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: bfd-enable-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
  </bfd-enable-all-interfaces><!-- operation="delete"-->
</process>
</processes>
</ospfv3>

```

Command Syntax

```
bfd all-interfaces
```

Configure database summary

Use this attribute to enable the database summary list optimization for OSPFv3.

Attribute Name: database-summary

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>

```

```

    <ospfv3-id>0</ospfv3-id>
  </config>
</database-summary><!-- operation="delete"-->
</process>
</processes>
</ospfv3>

```

Command Syntax

```
enable db-summary-opt
```

Configure area border type

Use this attribute to set an OSPFv3 Area Border Router (ABR) type.

Attribute Name: area-border-type

Attribute Type: enum (standard|cisco|ibm)

Default Value: cisco

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <area-border-type>cisco</area-border-type> <!-- operation="delete"-->
    </process>
  </processes>
</ospfv3>

```

Command Syntax

```
abr-type (standard|cisco|ibm)
```

Configure default metric

Use this attribute to set a default metric for OSPFv3.

Attribute Name: default-metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 1-16777214

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>

```



```

    <ospfv3-id>0</ospfv3-id>
  </config>
  <default-metric>1</default-metric> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>

```

Command Syntax

```
default-metric <1-16777214>
```

Configure shutdown

Use this attribute to specify an OSPFv3 shutdown

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      </shutdown><!-- operation="delete"-->
    </process>
  </processes>
</ospfv3>

```

Command Syntax

```
shutdown
```

Configure log adjacency changes

Use this attribute for the the router to send a SYSLOG message when an OSPFv3 neighbor goes up or down.

Attribute Name: log-adjacency-changes

Attribute Type: enum (brief|detail)

Default Value: brief

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
</ospfv3>

```

```

    <log-adjacency-changes>brief</log-adjacency-changes> <!-- operation="delete"-->
  </process>
</processes>
</ospfv3>

```

Command Syntax

```
log-adjacency-changes (brief|detail|)
```

Configure reference bandwidth

Use this attribute to control how OSPFv3 calculates the default metric for the interface.

Attribute Name: reference-bandwidth

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-4294967

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
        </config>
        <reference-bandwidth>1</reference-bandwidth> <!-- operation="delete"-->
      </process>
    </processes>
  </ospfv3>

```

Command Syntax

```
auto-cost reference-bandwidth <1-4294967>
```

Configure max database descriptors

Use this attribute to limit the number of Database Descriptors (DD) that can be processed concurrently.

Attribute Name: max-database-descriptors

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>

```

```

        <ospfv3-id>0</ospfv3-id>
    </config>
    <max-database-descriptors>1</max-database-descriptors> <!-- operation="delete"-->
>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
max-concurrent-dd <1-65535>
```

Configure default distance

Default administrative distance value

Attribute Name: default-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
        </config>
      <administrative-distance>
        <config>
          <default-distance>1</default-distance> <!-- operation="delete"-->
        </config>
      </administrative-distance>
    </process>
  </processes>
</ospfv3>

```

Command Syntax

```
distance <1-254>
```

Configure intra area distance

Administrative distance for intra-area routes

Attribute Name: intra-area-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Attribute Name: inter-area-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Attribute Name: external-routes-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <administrative-distance>
        <ospf>
          <config>
            <inter-area-distance>1</inter-area-distance> <!-- operation="delete"-->
            <external-routes-distance>1</external-routes-distance> <!--
operation="delete"-->
            <intra-area-distance>1</intra-area-distance> <!-- operation="delete"-->
          </config>
        </ospf>
      </administrative-distance>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
distance ospfv3 { intra-area <1-254>| inter-area <1-254>| external <1-254> }
```

Configure traffic engineering

OSPFv3 Traffic Engineering extension

Attribute Name: traffic-engineering

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
```

```

    </config>
  <capability>
    <config>
      </traffic-engineering><!-- operation="delete"-->
    </config>
  </capability>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
capability te
```

Configure disable graceful restart

Graceful OSPFv3 Restart

Attribute Name: disable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <capability>
      <config>
        </disable-graceful-restart><!-- operation="delete"-->
      </config>
    </capability>
  </process>
</processes>
</ospfv3>

```

Command Syntax

```
no capability restart
```

Configure exponential max delay

Use this attribute to set the maximum SPF hold delay time in milliseconds

Attribute Name: exponential-max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Attribute Name: exponential-min-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <timers>
    <spf>
      <config>
        <exponential-min-delay>0</exponential-min-delay>
        <exponential-max-delay>0</exponential-max-delay>
      </config>
    </spf>
  </timers>
</ospfv3>
```

Command Syntax

```
timers spf exp <0-2147483647> <0-2147483647>
```

Configure ospf6SRv6enable

Enable segment routing v6

This command is supported when following feature are enabled OSPFv3 IPv6 Segment Routing

Attribute Name: ospf6SRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <ospfv3-srv6>
      <config>
        </ospf6SRv6enable><!-- operation="delete"-->
      </config>
    </ospfv3-srv6>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
segment-routing srv6
```

Configure ospf6SRv6LocatorName

Locator name

This command is supported when following feature are enabled OSPFv3 IPv6 Segment Routing

Attribute Name: ospf6SRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <ospfv3-srv6>
      <locator-lists>
        <locator-list> <!-- operation="delete"-->
          <ospf6SRv6LocatorName>WORD</ospf6SRv6LocatorName>
          <config>
            <ospf6SRv6LocatorName>WORD</ospf6SRv6LocatorName>
          </config>
        </locator-list>
      </locator-lists>
    </ospfv3-srv6>
  </process>
</processes>
</ospfv3>

```

Command Syntax

```
srv6-locator WORD
```

Configure all interfaces

Use this attribute to set all interfaces as passive

Attribute Name: all-interfaces

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>

```

```

        <ospfv3-id>0</ospfv3-id>
    </config>
</passive-interfaces>
<config>
    </all-interfaces><!-- operation="delete"-->
</config>
</passive-interfaces>
</process>
</processes>
</ospfv3>

```

Command Syntax

passive-interface

Configure name

Use this attribute to set interface as passive or not.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: passive-mode

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <passive-interfaces>
    <passive-interface> <!-- operation="delete"-->
      <name>IFNAME</name>
      <config>
        <name>WORD</name>
        <passive-mode>enable</passive-mode>
      </config>
    </passive-interface>
  </passive-interfaces>
</ospfv3>

```

Command Syntax

passive-interface IFNAME (disable|enable)

Configure address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <summary-addresses>
      <summary-address> <!-- operation="delete"-->
        <address>X:X::X:X/M</address>
        <config>
          <address>X:X::X:X/M</address>
        </config>
      </summary-address>
    </summary-addresses>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M
```

Configure translate tag

Use this attribute to set or unset translate tag to external routes with the specified address range.

Attribute Name: translate-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: all-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
```

```

    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  <summary-addresses>
  <summary-address>
    <address>X:X::X:X/M</address>
    <config>
      <address>X:X::X:X/M</address>
      <all-tag>0</all-tag> <!-- operation="delete"-->
    </config>
    <translate-tag>0</translate-tag> <!-- operation="delete"-->
  </summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
summary-address X:X::X:X/M all-tag <0-4294967295> translate-tag <0-4294967295>
```

Configure not advertise

Use this attribute to set or unset not advertise to summarize or suppress external routes with the specified address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
  <process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  <summary-addresses>
  <summary-address>
    <address>X:X::X:X/M</address>
    <config>
      <address>X:X::X:X/M</address>
    </config>
    </not-advertise><!-- operation="delete"-->
  </summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
summary-address X:X::X:X/M not-advertise
```

Configure summary-address translate-tag

Use this attribute to set or unset translate tag to external routes with the specified address range.

Attribute Name: translate-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <summary-addresses>
        <summary-address>
          <address>X:X::X:X/M</address>
          <config>
            <address>X:X::X:X/M</address>
          </config>
          <translate-tag>0</translate-tag> <!-- operation="delete"-->
        </summary-address>
      </summary-addresses>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M translate-tag <0-4294967295>
```

Configure all tag

Use this attribute to set or unset all tag to summarize or suppress external routes with the specified address range.

Attribute Name: all-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
```

```

<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
<summary-addresses>
<summary-address>
  <address>X:X::X:X/M</address>
  <config>
    <address>X:X::X:X/M</address>
  </config>
  <all-tag>0</all-tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
summary-address X:X::X:X/M all-tag <0-4294967295>
```

Configure originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
  <process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  <default-information>
  <config>
    </originate><!-- operation="delete"-->
  </config>
  </default-information>
  </process>
</processes>
</ospfv3>

```

Command Syntax

```
default-information originate
```

Configure route map

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <default-information>
      <config>
        </originate><!-- operation="delete"-->
        </always-advertise-default-route><!-- operation="delete"-->
        <metric>0</metric> <!-- operation="delete"-->
        <metric-type>2</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
      </config>
    </default-information>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate { always| metric <0-16777214>| metric-type (1|2)|
route-map WORD }
```

Configure access control list

Use this attribute to set the access control list name in distribution list.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
        </config>
      <distributed-list>
        <filter-in>
          <config>
            <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
          </config>
        </filter-in>
      </distributed-list>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
distributed-list WORD in
```

Configure protocol

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|bgp|isis)

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
```

```

    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  </distribute-list>
</filter-out>
<routing-protocols>
<routing-protocol>
  <protocol>connected</protocol>
  <config>
    <protocol>connected</protocol>
    <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
  </config>
</routing-protocol>
</routing-protocols>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
distribute-list WORD out (connected|static|rip|bgp|isis)
```

Configure ospf process id

Use this attribute to filter networks in routing updates.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: ospf-process-id

Attribute Type: string

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
  <process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  </process>
  </processes>
</ospfv3>

```

```

        <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
    </config>
</ospf-process>
</ospf-processes>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
distribute-list WORD out ospf (WORD|)
```

Configure routing-protocols protocol

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|bgp|isis)

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <redistribute>
        <routing-protocols>
          <routing-protocol> <!-- operation="delete"-->
            <protocol>connected</protocol>
            <config>
              <protocol>connected</protocol>
            </config>
          </routing-protocol>
        </routing-protocols>
      </redistribute>
    </process>
  </processes>
</ospfv3>

```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis)
```

Configure metric

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <redistribute>
    <routing-protocols>
      <routing-protocol>
        <protocol>connected</protocol>
        <config>
          <protocol>connected</protocol>
          <metric-type>2</metric-type> <!-- operation="delete"-->
          <route-map>WORD</route-map> <!-- operation="delete"-->
          <route-tag>0</route-tag> <!-- operation="delete"-->
        </config>
      </routing-protocol>
    </routing-protocols>
  </redistribute>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis) { metric <0-16777214>| metric-type
(1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospf-processes ospf-process-id

Use this attribute to specify OSPF routes.

Attribute Name: ospf-process-id

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <ospf-process> <!-- operation="delete"-->
    <ospf-process-id>WORD</ospf-process-id>
    <config>
      <ospf-process-id>WORD</ospf-process-id>
    </config>
  </ospf-process>
</ospf-processes>
</redistribute>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (WORD|)
```

Configure metric type

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <ospf-processes>
    <ospf-process>
      <ospf-process-id>WORD</ospf-process-id>
      <config>
        <ospf-process-id>WORD</ospf-process-id>
        <metric-type>2</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
        <route-tag>0</route-tag> <!-- operation="delete"-->
      </config>
      <metric>0</metric> <!-- operation="delete"-->
    </ospf-process>
  </ospf-processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (WORD|) { metric <0-16777214>| metric-type (1|2)| route-map WORD|
tag <0-4294967295> }
```

Configure default cost

Use this attribute to set the cost for default summary route sent into a stub area. If an area is configured as a stub, the OSPFv3 router originates one type-3 inter-area-prefix-LSA into the stub area. This attribute changes the metric for this LSA.

Attribute Name: default-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777215

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
```

```

    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  </areas>
  <area>
    <area-id>OSPFV3_AREA_T</area-id>
    <config>
      <area-id>OSPFV3_AREA_T</area-id>
    </config>
    <default-cost>0</default-cost> <!-- operation="delete"-->
  </area>
</areas>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) default-cost <0-16777215>
```

Configure no summary

Use this attribute to do not inject inter-area routes into stub.

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <stub>
        <config>
          </enable><!-- operation="delete"-->
          </no-summary><!-- operation="delete"-->
        </config>
      </stub>
    </area>
  </areas>
</ospfv3>

```

```
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
area stub no-summary
```

Configure enable

Use this attribute to define an area as a stub area on all routers.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
        </config>
        <stub>
          <config>
            </enable>
          </config>
        </stub>
      </config>
    </area>
  </areas>
</ospfv3>
```

Command Syntax

```
area stub
```

Configure area id

Use this attribute to set an area as a Not-So-Stubby-Area (NSSA).

This command is supported when following feature are enabled HAVE_NSSA

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
area nssa
```

Configure remote router id

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: remote-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
</process>
</processes>
</ospfv3>

```

```

    <virtual-link> <!-- operation="delete"-->
      <remote-router-id>A.B.C.D</remote-router-id>
      <config>
        <remote-router-id>A.B.C.D</remote-router-id>
      </config>
    </virtual-link>
  </virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
area virtual-link A.B.C.D
```

Configure bfd fall over

Use this attribute to enable BFD on a virtual-link.

Attribute Name: bfd-fall-over

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          </bfd-fall-over><!-- operation="delete"-->
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv3>

```

```
</ospfv3>
```

Command Syntax

```
area virtual-link A.B.C.D fall-over bfd
```

Configure instance id

The OSPFv3 instance.

Attribute Name: instance-id

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-31,64-95

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <instance-id>0</instance-id> <!-- operation="delete"-->
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv3>
```

Command Syntax

```
area virtual-link A.B.C.D instance-id (<0-31>|<64-95>)
```

Configure authentication cryptomap

Use this attribute to set the Crypto-map used to setup IPsec SA.

Attribute Name: authentication-cryptomap

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
            <authentication-cryptomap>WORD</authentication-cryptomap> <!--
operation="delete"-->
          </config>
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv3>
```

Command Syntax

```
area virtual-link A.B.C.D authentication cryptomap WORD
```

Configure dead interval

Use this command to set the amount of time that the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: transmission-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1800

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <virtual-links>
        <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
            <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <timers>
            <config>
              <hello-interval>1</hello-interval> <!-- operation="delete"-->
              <transmission-delay>1</transmission-delay> <!-- operation="delete"-->
              <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
              <dead-interval>1</dead-interval> <!-- operation="delete"-->
            </config>
          </timers>
        </virtual-link>
      </virtual-links>
    </area>
  </areas>
</ospfv3>
```

Command Syntax

```
area virtual-link A.B.C.D { dead-interval <1-65535>| hello-interval <1-65535>|
  transmit-delay <1-1800>| retransmit-interval <1-1800> }
```

Configure address-ranges address

Use this attribute to configure the OSPFv3 address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
        <address-ranges>
          <address-range> <!-- operation="delete"-->
            <address>X:X::X:X/M</address>
            <config>
              <address>X:X::X:X/M</address>
            </config>
          </address-range>
        </address-ranges>
      </config>
    </area>
  </areas>
</ospfv3>
```

Command Syntax

```
area range X:X::X:X/M
```

Configure address-range not-advertise

Use this attribute to Specify to advertise / non-advertise the OSPFv3 address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <areas>
    <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <address-ranges>
        <address-range>
          <address>X:X::X:X/M</address>
          <config>
            <address>X:X::X:X/M</address>
          </config>
          </not-advertise><!-- operation="delete"-->
        </address-range>
      </address-ranges>
    </area>
  </areas>
</ospfv3>

```

Command Syntax

```
area range X:X::X:X/M not-advertise
```

Configure address-ranges address

Use this attribute to configure the OSPFv3 address range for IPv4 address family.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <address-family>
        <ipv4>
          <areas>

```

```

<area>
  <area-id>OSPFV3_AREA_T</area-id>
  <config>
    <area-id>OSPFV3_AREA_T</area-id>
  </config>
  <address-ranges>
    <address-range> <!-- operation="delete"-->
      <address>A.B.C.D/M</address>
      <config>
        <address>A.B.C.D/M</address>
      </config>
    </address-range>
  </address-ranges>
</area>
</areas>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) range A.B.C.D/M
```

Configure address-range not-advertise

Use this attribute to Specify to advertise / non-advertise the OSPFv3 address range for IPv4 address family.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <address-family>
    <ipv4>
      <areas>
        <area>
          <area-id>OSPFV3_AREA_T</area-id>
          <config>
            <area-id>OSPFV3_AREA_T</area-id>
          </config>
          <address-ranges>
            <address-range>
              <address>A.B.C.D/M</address>
            </address-range>
          </address-ranges>
        </area>
      </areas>
    </ipv4>
  </address-family>
</ospfv3>

```

```

    <config>
      <address>A.B.C.D/M</address>
    </config>
    </not-advertise><!-- operation="delete"-->
  </address-range>
</address-ranges>
</area>
</areas>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
area range A.B.C.D/M not-advertise
```

Configure summary-addresses address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <address-family>
      <ipv4>
        <summary-addresses>
          <summary-address> <!-- operation="delete"-->
            <address>A.B.C.D/M</address>
          <config>
            <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
          </config>
        </summary-address>
      </summary-addresses>
    </ipv4>
  </address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
summary-address A.B.C.D/M
```

Configure summary-address not-advertise

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
        </config>
      <address-family>
        <ipv4>
          <summary-addresses>
            <summary-address>
              <address>A.B.C.D/M</address>
              <config>
                <address>A.B.C.D/M</address>
              </config>
            </not-advertise><!-- operation="delete"-->
          </summary-address>
        </summary-addresses>
      </ipv4>
    </address-family>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address A.B.C.D/M not-advertise
```

Configure tag

Use this attribute to configure the Tag value to use as a match value for controlling redistribution via route maps.

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
```

```

    <config>
      <ospfv3-id>0</ospfv3-id>
    </config>
  <address-family>
    <ipv4>
      <summary-addresses>
        <summary-address>
          <address>A.B.C.D/M</address>
        <config>
          <address>A.B.C.D/M</address>
        </config>
        <tag>0</tag> <!-- operation="delete"-->
      </summary-address>
    </summary-addresses>
  </ipv4>
</address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
summary-address A.B.C.D/M tag <0-4294967295>
```

Configure default-information originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <address-family>
      <ipv4>
        <default-information>
          <config>
            </originate><!-- operation="delete"-->
          </config>
        </default-information>
      </ipv4>
    </address-family>
  </process>

```



```
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate
```

Configure always advertise default route

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
  <address-family>
    <ipv4>
      <default-information>
        <config>
          </originate><!-- operation="delete"-->
          </always-advertise-default-route><!-- operation="delete"-->
          <metric>0</metric> <!-- operation="delete"-->
          <metric-type>2</metric-type> <!-- operation="delete"-->
          <route-map>WORD</route-map> <!-- operation="delete"-->
        </config>
      </default-information>
    </ipv4>
  </address-family>
</ospfv3>
```

```

</address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```

default-information originate { always| metric <0-16777214>| metric-type (1|2)|
route-map WORD }

```

Configure protocol af

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

Attribute Name: protocol-af

Attribute Type: enum (connected|static|rip|bgp|isis)

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
<address-family>
<ipv4>
<redistribute>
<routing-protocols>
<routing-protocol> <!-- operation="delete"-->
  <protocol-af>connected</protocol-af>
  <config>
    <protocol-af>connected</protocol-af>
  </config>
</routing-protocol>
</routing-protocols>
</redistribute>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>

```

Command Syntax

```

redistribute (connected|static|rip|bgp|isis)

```

Configure route tag

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <address-family>
      <ipv4>
        <redistribute>
          <routing-protocols>
            <routing-protocol>
              <protocol-af>connected</protocol-af>
              <config>
                <protocol-af>connected</protocol-af>
                <metric-type>2</metric-type> <!-- operation="delete"-->
                <route-map>WORD</route-map> <!-- operation="delete"-->
                <route-tag>0</route-tag> <!-- operation="delete"-->
              </config>
              <metric>0</metric> <!-- operation="delete"-->
            </routing-protocol>
          </routing-protocols>
        </redistribute>
      </ipv4>
    </address-family>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis) { metric <0-16777214>| metric-type
(1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospfv2 process id

Use this attribute to specify OSPF routes.

Attribute Name: ospfv2-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
  <ospfv3-id>WORD</ospfv3-id>
  <config>
    <ospfv3-id>0</ospfv3-id>
  </config>
<address-family>
<ipv4>
<redistribute>
<ospf-processes>
<ospf-process> <!-- operation="delete"-->
  <ospfv2-process-id>0</ospfv2-process-id>
  <config>
    <ospfv2-process-id>0</ospfv2-process-id>
  </config>
</ospf-process>
</ospf-processes>
</redistribute>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (<0-65535>|)
```

Configure ospf-process metric

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    <address-family>
      <ipv4>
        <redistribute>
          <ospf-processes>
            <ospf-process>
              <ospfv2-process-id>0</ospfv2-process-id>
              <config>
                <ospfv2-process-id>0</ospfv2-process-id>
                <metric-type>2</metric-type> <!-- operation="delete"-->
                <route-map>WORD</route-map> <!-- operation="delete"-->
                <route-tag>0</route-tag> <!-- operation="delete"-->
              </config>
              <metric>0</metric> <!-- operation="delete"-->
            </ospf-process>
          </ospf-processes>
        </redistribute>
      </ipv4>
    </address-family>
  </process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (<0-65535>|) { metric <0-16777214>| metric-type (1|2)| route-map
WORD| tag <0-4294967295> }
```

Configure enabled

Use this attribute to distribute linkstate and TE Database to BGP.

This command is supported when following feature are enabled OSPFv3 BGP-LS for SRv6

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
      <bgp-link-state>
        <distribute>
          <config>
            </enabled><!-- operation="delete"-->
          </config>
        </distribute>
      </bgp-link-state>
    </process>
  </processes>
</ospfv3>
```

Command Syntax

```
distribute bgp-ls
```

Configure throttle timer

Use this attribute to set interval between processing LS DB.

This command is supported when following feature are enabled OSPFv3 BGP-LS for SRv6

Attribute Name: throttle-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 5-20

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
    <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
        <ospfv3-id>0</ospfv3-id>
      </config>
    </process>
  </processes>
</ospfv3>
```

```

<distributed>
<config>
    </enabled><!-- operation="delete"-->
    <throttle-timer>5</throttle-timer> <!-- operation="delete"-->
</config>
</distributed>
</bgp-link-state>
</process>
</processes>
</ospfv3>

```

Command Syntax

```
distributed bgp-ls throttle <5-20>
```

Configure retransmission

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: isa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: nfm

Attribute Type: bits (status|events|timers)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: dist-ls

Attribute Type: empty

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
  </bfd><!-- operation="delete"-->
  <events>abr</events> <!-- operation="delete"-->
  <ifsm>status</ifsm> <!-- operation="delete"-->
  <lsa>generate</lsa> <!-- operation="delete"-->
  <nfsm>status</nfsm> <!-- operation="delete"-->
  <nsm>interface</nsm> <!-- operation="delete"-->
  <route>spf</route> <!-- operation="delete"-->
  <rib>interface</rib> <!-- operation="delete"-->
  </dist-ls><!-- operation="delete"-->
  <packet-hello>send</packet-hello> <!-- operation="delete"-->
  <packet-dd>send</packet-dd> <!-- operation="delete"-->
  <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
  <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
  <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
  </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf
```

Configure bfd

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: dist-ls

Attribute Type: empty

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
  </bfd><!-- operation="delete"-->
  <events>abr</events> <!-- operation="delete"-->
  <ifsm>status</ifsm> <!-- operation="delete"-->
  <lsa>generate</lsa> <!-- operation="delete"-->
  <nfsm>status</nfsm> <!-- operation="delete"-->
  <nsm>interface</nsm> <!-- operation="delete"-->
  <route>spf</route> <!-- operation="delete"-->
  <rib>interface</rib> <!-- operation="delete"-->
</dist-ls><!-- operation="delete"-->
<packet-hello>send</packet-hello> <!-- operation="delete"-->
<packet-dd>send</packet-dd> <!-- operation="delete"-->
<packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
<packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
<packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
</retransmission><!-- operation="delete"-->
```

```
</config>  
</debug>  
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf all
```

Configure debug bfd

Bidirectional Forwarding Detection (BFD)

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <debug>  
    <config>  
      </bfd><!-- operation="delete"-->  
    </config>  
  </debug>  
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf bfd
```

Configure debug retransmission

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <debug>  
    <config>  
      </retransmission><!-- operation="delete"-->  
    </config>  
  </debug>  
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf retransmission
```

Configure dist ls

Use this attribute to enable OSPF distribute linkstate details debug.

Attribute Name: dist-ls

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    </dist-ls><!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf dist-ls
```

Configure events

OSPFv3 events information

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    <events>abr</events> <!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}||)
```

Configure ifsm

Use this attribute to enable OSPFv3 Interface State Machine debug

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    <ifsm>status</ifsm> <!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf ifsm ({status|events|timers}|)
```

Configure lsa

Use this attribute to enable OSPFv3 Link State Advertisement debug

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
    <config>
      <lsa>generate</lsa> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

Configure nfsm

Use this attribute to enable OSPFv3 Neighbor State Machine debug

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
    <config>
      <nfsm>status</nfsm> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf nfsm ({status|events|timers}|)
```

Configure nsm

Use this attribute to enable OSPFv3 NSM information debug

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    <nsm>interface</nsm> <!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf nsm ({interface|redistribute|})
```

Configure rib

Use this attribute to enable OSPFv3 RIB information debug

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    <rib>interface</rib> <!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf rib ({interface|redistribute|})
```

Configure route

Use this attribute to enable OSPFv3 route information debug

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
  <config>
    <route>spf</route> <!-- operation="delete"-->
  </config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf route ({spf|ia|ase|install|})
```

Configure packet hello

OSPFv3 Hello

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
  <packet-hello>send</packet-hello> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet hello ({send|recv|detail}|)
```

Configure packet dd

OSPFv3 Database Description

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
  <packet-dd>send</packet-dd> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet dd ({send|recv|detail}|)
```

Configure packet ls request

OSPFv3 Link State Request

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
  <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

```
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-request ({send|recv|detail}||)
```

Configure packet ls update

OSPFv3 Link State Update

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
    <config>
      <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-update ({send|recv|detail}||)
```

Configure packet ls ack

OSPFv3 Link State Acknowledgment

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <debug>
    <config>
      <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
    </config>
  </debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-ack ({send|recv|detail}||)
```

debug ipv6 ospf

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf
```

no debug ipv6 ospf

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf
```

debug ipv6 ospf all

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-all-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf all
```

no debug ipv6 ospf all

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf all
```

debug ipv6 ospf bfd

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf bfd
```

no debug ipv6 ospf bfd

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-bfd-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf bfd
```

debug ipv6 ospf retransmission

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-retransmission-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf retransmission
```

no debug ipv6 ospf retransmission

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-retransmission-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf retransmission
```

debug ipv6 ospf dist-ls

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-dist-ls-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf dist-ls
```

no debug ipv6 ospf dist-ls

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-dist-ls-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf dist-ls
```

debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa|})

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-events-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <events>abr</events>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-events-on>
```

Command Syntax

```
debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa|})
```

no debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa|})

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-events-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <events>abr</events>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-events-off>
```

Command Syntax

```
no debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa|})
```

debug ipv6 ospf ifsm ({status|events|timers|})

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <ifsm>status</ifsm>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-on>
```

Command Syntax

```
debug ipv6 ospf ifsm ({status|events|timers|})
```

no debug ipv6 ospf ifsm ({status|events|timers|})

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ifsm>status</ifsm>
</ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-off>
```

Command Syntax

```
no debug ipv6 ospf ifsm ({status|events|timers}|)
```

debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
  <lsa>generate</lsa>
</ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-on>
```

Command Syntax

```
debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

no debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <lsa>generate</lsa>
</ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-off>
```

Command Syntax

```
no debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

debug ipv6 ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <nfsm>status</nfsm>
</ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-on>
```

Command Syntax

```
debug ipv6 ospf nfsm ({status|events|timers}|)
```

no debug ipv6 ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <nfsm>status</nfsm>
</ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-off>
```

Command Syntax

```
no debug ipv6 ospf nfsm ({status|events|timers}|)
```

debug ipv6 ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
  <nsm>interface</nsm>
</ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-on>
```

Command Syntax

```
debug ipv6 ospf nsm ({interface|redistribute}|)
```

no debug ipv6 ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <nsm>interface</nsm>
</ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-off>
```

Command Syntax

```
no debug ipv6 ospf nsm ({interface|redistribute}|)
```

debug ipv6 ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <all>send</all>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-on>
```

Command Syntax

```
debug ipv6 ospf packet ({send|recv|detail}|)
```

no debug ipv6 ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <all>send</all>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-off>
```

Command Syntax

```
no debug ipv6 ospf packet ({send|recv|detail}|)
```

debug ipv6 ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <hello>send</hello>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-on>
```

Command Syntax

```
debug ipv6 ospf packet hello ({send|recv|detail}|)
```

no debug ipv6 ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <hello>send</hello>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-off>
```

Command Syntax

```
no debug ipv6 ospf packet hello ({send|recv|detail}|)
```

debug ipv6 ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <dd>send</dd>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-on>
```

Command Syntax

```
debug ipv6 ospf packet dd ({send|recv|detail}|)
```

no debug ipv6 ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <dd>send</dd>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-off>
```

Command Syntax

```
no debug ipv6 ospf packet dd ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">  
  <ls-request>send</ls-request>  
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-on>
```

Command Syntax

```
debug ipv6 ospf packet ls-request ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ls-request>send</ls-request>
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-off>
```

Command Syntax

```
no debug ipv6 ospf packet ls-request ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ls-update>send</ls-update>
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-on>
```

Command Syntax

```
debug ipv6 ospf packet ls-update ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ls-update>send</ls-update>
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-off>
```

Command Syntax

```
no debug ipv6 ospf packet ls-update ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ls-ack>send</ls-ack>
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-on>
```

Command Syntax

```
debug ipv6 ospf packet ls-ack ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <ls-ack>send</ls-ack>
</ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-off>
```

Command Syntax

```
no debug ipv6 ospf packet ls-ack ({send|recv|detail}|)
```

debug ipv6 ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-rib-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
  <rib>interface</rib>
</ipi-ospfv3-debug_ospfv3-terminal-debug-rib-on>
```

Command Syntax

```
debug ipv6 ospf rib ({interface|redistribute}|)
```

no debug ipv6 ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-rib-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <rib>interface</rib>
</ipi-ospfv3-debug_ospfv3-terminal-debug-rib-off>
```

Command Syntax

```
no debug ipv6 ospf rib ({interface|redistribute}|)
```

debug ipv6 ospf route ({spf|ia|ase|install}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-route-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <route>spf</route>
</ipi-ospfv3-debug_ospfv3-terminal-debug-route-on>
```

Command Syntax

```
debug ipv6 ospf route ({spf|ia|ase|install|})
```

no debug ipv6 ospf route ({spf|ia|ase|install|})

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-route-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <route>spf</route>
</ipi-ospfv3-debug_ospfv3-terminal-debug-route-off>
```

Command Syntax

```
no debug ipv6 ospf route ({spf|ia|ase|install|})
```

clear ipv6 ospf (WORD|) process

Attribute Name: process-id

Attribute Type: string

Netconf RPC payload

```
<ipi-ospfv3-global_ospfv3-clear-process xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-ospfv3">
  <process-id>WORD</process-id>
</ipi-ospfv3-global_ospfv3-clear-process>
```

Command Syntax

```
clear ipv6 ospf (WORD|) process
```

restart ipv6 ospf graceful (grace-period <2-1800>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf RPC payload

```
<ipi-ospfv3-global_ospfv3-graceful-restart xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
```

```
<grace-period>2</grace-period>
</ipi-ospfv3-global_ospfv3-graceful-restart>
```

Command Syntax

```
restart ipv6 ospf graceful (grace-period <2-1800>|)
```

snmp restart ospf6

Netconf RPC payload

```
<ipi-ospfv3-global_ospfv3-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
snmp restart ospf6
```

IPI-OSPFV3-INTERFACE

Configure shutdown

Use this attribute to shutdown OSPFV3 on the interface

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
    <interface>
      <interface-name>WORD</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      </shutdown><!-- operation="delete"-->
    </interface>
  </interfaces>
</ospfv3>
```

Command Syntax

```
ospfv3 shutdown
```

Configure enable link lsa suppression

Use this attribute to enable or disable link LSA (type 8) suppression. A type 8 LSA gives information about link-local addresses and a list of IPv6 addresses on the link. If enabled and the interface type is not broadcast or NBMA, the router does not send type 8 link LSAs. This implies that other routers on the link determine the router's next-hop address using a mechanism other than the type 8 link LSA. This feature is implicitly disabled if the interface type is broadcast or NBMA.

Attribute Name: enable-link-lsa-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    </enable-link-lsa-suppression><!-- operation="delete"-->
  </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf link-lsa-suppression enable (instance-id (<0-31>|<64-95>)) |)
```

Configure enable bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD)

Attribute Name: enable-bfd

Attribute Type: boolean

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <enable-bfd>true</enable-bfd> <!-- operation="delete"-->
  </instance>
```

```

</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf bfd (instance-id (<0-31>|<64-95>))
```

Configure interface name

Use this attribute to enable Bidirectional Forwarding Detection (BFD)

Attribute Name: enable-bfd

Attribute Type: boolean

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <enable-bfd>true</enable-bfd> <!-- operation="delete"-->
  </instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf bfd disable (instance-id (<0-31>|<64-95>))
```

Configure network type

Use this attribute to set an OSPFv3 network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>

```

```

<interface-name>WORD</interface-name>
<config>
  <interface-name>WORD</interface-name>
</config>
<instances>
<instance>
  <instance-id>0</instance-id>
  <config>
    <instance-id>0</instance-id>
  </config>
  <network-type>point-to-point</network-type> <!-- operation="delete"-->
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```

ipv6 ospf network (point-to-point|broadcast|non-broadcast|point-to-
multipoint|point-to-multipoint non-broadcast) (instance-id (<0-31>|<64-95>)|)

```

Configure cost

Use this attribute to specify the link-cost described in LSAs. The cost (or metric) of an interface in OSPF indicates the overhead required to send packets across a certain interface. The value is taken to describe Link State information, and used for route calculation.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <cost>1</cost> <!-- operation="delete"-->
  </instance>
</instances>
</interface>

```

```
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf cost <1-65535> (instance-id (<0-31>|<64-95>))
```

Configure priority

Use this attribute to set the router priority for determining the designated router (DR) for the network. A router with the higher router priority becomes the DR. If the priority is the same for two routers, the router with the higher router ID takes precedence. Only routers with a nonzero priority value are eligible to become the designated or backup designated router. Configure router priority for broadcast or NBMA networks only and not for point-to-point networks.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <priority>0</priority> <!-- operation="delete"-->
  </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf priority <0-255> (instance-id (<0-31>|<64-95>))
```

Configure traffic engineering metric

Use this attribute to set the traffic engineering metric for an interface. The traffic engineering metric is used in OSPF-TE Link State Advertisements. If the traffic engineering metric is not set, the ipv6 ospf cost value for an interface is used in OSPF-TE Link State Advertisements.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
  </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 te-metric <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure mtu

Use this attribute to set MTU size for OSPFv3 to construct packets based on this value. Whenever OSPFv3 constructs packets, it uses interface MTU size as Maximum IP packet size. this attribute forces OSPFv3 to use the specified value overriding the actual interface MTU size.

Attribute Name: mtu

Attribute Type: uint16

Default Value: 1500

Attribute Range: 1280-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
```

```

        <instance-id>0</instance-id>
    </config>
    <mtu>1280</mtu> <!-- operation="delete"-->
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf mtu <1280-65535> (instance-id (<0-31>|<64-95>))
```

Configure mtu ignore

Use this attribute to ignore the MTU size during DD (Database Description) exchange. By default, during the DD exchange process, OSPFv3 checks the MTU size described in DD packets received from its neighbor, and if the MTU size does not match the interface MTU, the neighbor adjacency is not established. Using this command makes OSPFv3 ignore this check and allows establishing of adjacency regardless of MTU size in the DD packet.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    <instances>
    <instance>
        <instance-id>0</instance-id>
        <config>
            <instance-id>0</instance-id>
        </config>
        </mtu-ignore><!-- operation="delete"-->
    </instance>
    </instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf mtu-ignore (instance-id (<0-31>|<64-95>))
```

Configure authentication cryptomap

Use this attribute to set the Crypto-map used to setup IPsec SA.

Attribute Name: authentication-cryptomap

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <authentication-cryptomap>WORD</authentication-cryptomap> <!--
operation="delete"-->
  </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf (instance-id (<0-31>|<64-95>)) authentication cryptomap WORD
```

Configure area id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
```

```

    <router> <!-- operation="delete"-->
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
        <ospfv3-id>WORD</ospfv3-id>
      </config>
      <ospfv3-id>WORD</ospfv3-id>
    </router>
  </routers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 router ospf area (A.B.C.D|<0-4294967295>) (instance-id (<0-31>|<64-95>))
```

Configure ospfv3 id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: area-id

Attribute Type: uint32

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
    <interface>
      <interface-name>WORD</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <instances>
        <instance>
          <instance-id>0</instance-id>
          <config>
            <instance-id>0</instance-id>
          </config>
        </instance>
      </instances>
    </interface>
  </interfaces>
  <routers>
    <router>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
        <area-id>OSPFV3_AREA_T</area-id>
        <ospfv3-id>WORD</ospfv3-id>
      </config>
      <ospfv3-id>WORD</ospfv3-id>
    </router>
  </routers>
</ospfv3>

```

```

    </router>
  </routers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 router ospf tag WORD area (instance-id (<0-31>|<64-95>)|)
```

Configure instance id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: ospfv3-id

Attribute Type: string

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
    <interface>
      <interface-name>WORD</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <instances>
        <instance>
          <instance-id>0</instance-id>
          <config>
            <instance-id>0</instance-id>
          </config>
          <routers>
            <router>
              <area-id>OSPFV3_AREA_T</area-id>
              <config>
                <area-id>OSPFV3_AREA_T</area-id>
                <ospfv3-id>WORD</ospfv3-id>
              </config>
              <ospfv3-id>WORD</ospfv3-id>
            </router>
          </routers>
        </instance>
      </instances>
    </interface>
  </interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 router ospf area tag WORD (instance-id (<0-31>|<64-95>)|)
```

Configure dead interval

Use this attribute to set the amount of time that the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down

Attribute Name: dead-interval

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
    <interface>
      <interface-name>WORD</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <instances>
        <instance>
          <instance-id>0</instance-id>
          <config>
            <instance-id>0</instance-id>
            </config>
            <timers>
              <config>
                <dead-interval>1</dead-interval> <!-- operation="delete"-->
              </config>
            </timers>
          </instance>
        </instances>
      </interface>
    </interfaces>
  </ospfv3>
```

Command Syntax

```
ipv6 ospf dead-interval <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure hello interval

Use this attribute to set the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
<instances>
<instance>
  <instance-id>0</instance-id>
  <config>
    <instance-id>0</instance-id>
  </config>
  <timers>
  <config>
    <hello-interval>1</hello-interval> <!-- operation="delete"-->
  </config>
</timers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf hello-interval <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure transmission delay

Use this attribute to set the estimated time it takes to transmit a Link State Update packet over the interface.

Attribute Name: transmission-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1800

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
<instances>
<instance>
  <instance-id>0</instance-id>
  <config>

```

```

        <instance-id>0</instance-id>
    </config>
    <timers>
    <config>
        <transmission-delay>1</transmission-delay> <!-- operation="delete"-->
    </config>
    </timers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf transmit-delay <1-1800> (instance-id (<0-31>|<64-95>)|)
```

Configure retransmission interval

Use this attribute to set the interval between retransmission of Link State Update packets.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1800

Netconf edit-config payload

```

<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    <instances>
    <instance>
        <instance-id>0</instance-id>
        <config>
            <instance-id>0</instance-id>
        </config>
        <timers>
        <config>
            <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
        </config>
        </timers>
    </instance>
    </instances>
</interface>
</interfaces>
</ospfv3>

```

Command Syntax

```
ipv6 ospf retransmit-interval <1-1800> (instance-id (<0-31>|<64-95>))
```

Configure address

Static neighbor IPv6 link-local address

Attribute Name: address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
    <interface>
      <interface-name>WORD</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <instances>
        <instance>
          <instance-id>0</instance-id>
          <config>
            <instance-id>0</instance-id>
          </config>
          <neighbors-static>
            <neighbor-static> <!-- operation="delete"-->
              <address>X:X::X:X</address>
              <config>
                <address>X:X::X:X</address>
              </config>
            </neighbor-static>
          </neighbors-static>
        </instance>
      </instances>
    </interface>
  </interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf neighbor X:X::X:X (instance-id (<0-31>|<64-95>))
```

Configure poll interval

Use this attribute to set the dead neighbor polling interval in seconds. It is recommended to set this value much higher than the hello interval. The default is 120 seconds.

Attribute Name: poll-interval

Attribute Type: uint32

Default Value: 120

Attribute Range: 0-4294967295

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <instances>
  <instance>
    <instance-id>0</instance-id>
    <config>
      <instance-id>0</instance-id>
    </config>
    <neighbors-static>
    <neighbor-static>
      <address>X:X::X:X</address>
      <config>
        <address>X:X::X:X</address>
        <cost>1</cost> <!-- operation="delete"-->
        <priority>0</priority> <!-- operation="delete"-->
      </config>
      <poll-interval>0</poll-interval> <!-- operation="delete"-->
    </neighbor-static>
  </neighbors-static>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf neighbor X:X::X:X { cost <1-65535>| priority <0-255>| poll-interval <0-4294967295> } (instance-id (<0-31>|<64-95>)|)
```

IPI-BGP

Configure enable aggregate nexthop

Use this attribute to set the BGP option to perform aggregation only when next-hop matches the specified IP address.

Attribute Name: enable-aggregate-nexthop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-aggregate-nexthop><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp aggregate-nexthop-check
```

Configure enable path select

Use this attribute to set RFC 1771 compatible path selection

Attribute Name: enable-path-select

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-path-select><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp rfc1771-path-select
```

Configure disable rfc7606 error handling

Use this attribute to Disable RFC7606 revised error handling.

Attribute Name: disable-rfc7606-error-handling

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </disable-rfc7606-error-handling><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp disable-rfc7606-error-handling
```

Configure enable bogon filtering

Use this attribute to enable BOGON filtering

Attribute Name: enable-bogon-filtering

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-bogon-filtering><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp enable-bogon-filtering
```

Configure enable extended asn capability

Use this attribute to configure a BGP router to send 4-octet ASN capabilities. If attempting to change the AS capability from 2 to 4 or 4 to 2, a prompt occurs to remove the VRF configuration (if it exists), and reconfiguration is required, because the route distinguisher (RD) configuration would have been created with the current (2 octet or 4 octet) capability, and must be reconfigured before attempting to change the capability. While loading from a saved configuration with AS4 capability and BGP VRF configuration, the capability will not be changed because of the above described reason.

Attribute Name: enable-extended-asn-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-extended-asn-capability><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

```
</bgp>
```

Command Syntax

```
bgp extended-asn-cap
```

Configure enable nexthop tracking

Use this attribute to enable nexthop address tracking. Nexthop address tracking is an event-driven notification system that monitors the status of routes installed in the Routing Information Base (RIB) and reports nexthop changes that affect internal BGP (iBGP) or external BGP (eBGP) prefixes directly to the BGP process. This improves the overall BGP convergence time, by allowing BGP to respond rapidly to nexthop changes for routes installed in the RIB. If nexthop tracking is enabled after certain routes are learned, the registration of all nexthops for selected BGP routes is done after the nexthop tracking feature is enabled. If nexthop tracking is disabled, and if there are still some selected BGP routes, BGP de-registers the nexthops of all selected BGP routes from NSM.

Attribute Name: enable-nexthop-tracking

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-nexthop-tracking><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp nexthop-trigger enable
```

Configure nexthop tracking delay

Use this attribute to set the delay time for nexthop address tracking. This attribute configures the delay interval between routing table walks for nexthop delay tracking, after which BGP does a routing table scan on receiving a nexthop change trigger from NSM. The time period determines how long BGP waits before it walks the full BGP table to determine which prefixes are affected by the nexthop changes, after it receives the trigger from NSM about one or more nexthop changes.

Attribute Name: nexthop-tracking-delay

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      <nexthop-tracking-delay>1</nexthop-tracking-delay> <!-- operation="delete"-->
    </config>
  </global>
```

```
</bgp>
```

Command Syntax

```
bgp nexthop-trigger delay <1-100>
```

Configure enable rfc 1771 strict origin

Use this attribute to set the origin path attribute to IGP when the origin is a protocol such as RIP, OSPF, or ISIS as specified in RFC 1771. Otherwise, the origin is always set to incomplete which is the industry standard.

Attribute Name: enable-rfc-1771-strict-origin

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <config>
      </enable-rfc-1771-strict-origin><!-- operation="delete"-->
    </config>
  </global>
</bgp>
```

Command Syntax

```
bgp rfc1771-strict
```

Configure action name

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-name

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <numbered-lists>
        <numbered-list>
          <standard-number>1</standard-number>
          <config>
            <standard-number>1</standard-number>
          </config>
        </numbered-list>
      </numbered-lists>
    </community-lists>
```

```
</global>
</bgp>
```

Command Syntax

```
ip community-list <1-99> (deny|permit)
```

Configure action standard number

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-standard-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
    <numbered-lists>
    <numbered-list>
      <standard-number>1</standard-number>
      <config>
        <standard-number>1</standard-number>
      </config>
    <action-list-values>
    <action-list-value> <!-- operation="delete"-->
      <standard-number-value>AA:NN</standard-number-value>
      <config>
        <standard-number-value>WORD</standard-number-value>
        <action-standard-number>deny</action-standard-number>
      </config>
      <action-standard-number>deny</action-standard-number>
    </action-list-value>
  </action-list-values>
</numbered-list>
</numbered-lists>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list <1-99> (deny|permit) ((AA:NN|internet|local-AS|no-advertise|no-
  export))
```

Configure list type

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-name

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    <list-type>standard</list-type>
  </config>
  <list-type>standard</list-type>
</standard>
</standards>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip community-list (standard) WORD (deny|permit)
```

Configure action name standard

Use the community-lists to specify BGP community attributes. The community attribute is used for implementing policy routing. It is an optional, transitive attribute and facilitates transfer of local policies through different autonomous systems. It includes community values that are 32 bits long. There are two kinds of community-lists: expanded and standard. The standard community-list defines the community attributes in a specified format without regular expressions. The expanded community-list defines the community attributes with regular expressions. Use this attribute to add a standard community-list entry. The standard community-list is compiled into binary format and is directly compared with the BGP communities attribute in the BGP updates. The comparison is faster than the expanded community-list. Any community value that does not match the standard community value is automatically treated as expanded.

Attribute Name: action-name-standard

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
  <name>WORD</name>
  <config>
    <name>WORD</name>

```

```

        <list-type>standard</list-type>
    </config>
    <list-type>standard</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <community-value-standard>AA:NN</community-value-standard>
    <config>
        <community-value-standard>WORD</community-value-standard>
        <action-name-standard>deny</action-name-standard>
    </config>
    <action-name-standard>deny</action-name-standard>
</action-value>
</action-values>
</standard>
</standards>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip community-list WORD (deny|permit) ((AA:NN|internet|local-AS|no-advertise|no-export))
```

Configure name

Use the community-lists to specify BGP community attributes. The community attribute is used for implementing policy routing. It is an optional, transitive attribute and facilitates transfer of local policies through different autonomous systems. It includes community values that are 32 bits long. There are two kinds of community-lists: expanded and standard. The standard community-list defines the community attributes in a specified format without regular expressions. The expanded community-list defines the community attributes with regular expressions. Use this attribute to add a standard community-list entry. The standard community-list is compiled into binary format and is directly compared with the BGP communities attribute in the BGP updates. The comparison is faster than the expanded community-list. Any community value that does not match the standard community value is automatically treated as expanded.

Attribute Name: action-name-standard

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
    <name>WORD</name>
    <config>
        <name>WORD</name>
        <list-type>standard</list-type>
    </config>
    <list-type>standard</list-type>
</standard>
</standards>
</community-lists>
</global>
</bgp>

```

```

<action-value> <!-- operation="delete"-->
  <community-value-standard>AA:NN</community-value-standard>
  <config>
    <community-value-standard>WORD</community-value-standard>
    <action-name-standard>deny</action-name-standard>
  </config>
  <action-name-standard>deny</action-name-standard>
</action-value>
</action-values>
</standard>
</standards>
</community-lists>
</global>
</bgp>

```

Command Syntax

```

ip community-list (standard) WORD (deny|permit) ((AA:NN|internet|local-AS|no-
advertise|no-export))

```

Configure action expanded

Community list extended type

Attribute Name: action-expanded

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <expanded-lists>
        <expanded-list>
          <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
          <config>
            <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
            <list-type>expanded</list-type>
          </config>
          <list-type>expanded</list-type>
        </expanded-list>
      </expanded-lists>
      <action-values>
        <action-value> <!-- operation="delete"-->
          <regular-expression-list>LINE</regular-expression-list>
          <config>
            <regular-expression-list>LINE</regular-expression-list>
            <action-expanded>deny</action-expanded>
          </config>
          <action-expanded>deny</action-expanded>
        </action-value>
      </action-values>
    </community-lists>
  </global>
</bgp>

```



```

</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip community-list <100-500> (deny|permit) LINE
```

Configure expanded type

Community list extended type

Attribute Name: action-expanded

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <expanded-lists>
        <expanded-list>
          <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
          <config>
            <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
            <list-type>expanded</list-type>
          </config>
          <list-type>expanded</list-type>
        </expanded-list>
      </expanded-lists>
      <action-values>
        <action-value> <!-- operation="delete"-->
          <regular-expression-list>LINE</regular-expression-list>
          <config>
            <regular-expression-list>LINE</regular-expression-list>
            <action-expanded>deny</action-expanded>
          </config>
          <action-expanded>deny</action-expanded>
        </action-value>
      </action-values>
    </expanded-list>
  </community-lists>
</global>
</bgp>

```

Command Syntax

```
ip community-list (expanded) WORD (deny|permit) LINE
```

Configure extended action number

Extended Community list type

Attribute Name: extended-action-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <extended-community>
        <numbered-lists>
          <numbered-list>
            <standard-number>1</standard-number>
            <config>
              <standard-number>1</standard-number>
            </config>
          </numbered-list>
        </numbered-lists>
      </extended-community>
    </community-lists>
  </global>
</bgp>
```

Command Syntax

```
ip extcommunity-list <1-99> (deny|permit) (rt|soo) AA:NN
```

Configure extended action

extcommunity Community list type

Attribute Name: extended-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <extended-community>
        <standards>
          <standard>
            <name>WORD</name>
```

```

    <config>
      <name>WORD</name>
    </config>
  <action-values>
    <action-value> <!-- operation="delete"-->
      <value>AA:NN</value>
      <config>
        <value>WORD</value>
        <route-target-soo>rt</route-target-soo>
        <extended-action>deny</extended-action>
      </config>
      <route-target-soo>rt</route-target-soo>
      <extended-action>deny</extended-action>
    </action-value>
  </action-values>
</standard>
</standards>
</extended-community>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip extcommunity-list standard WORD (deny|permit) (rt|soo) AA:NN
```

Configure action

extcommunity Extended Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <community-lists>
      <extended-community>
        <expanded-lists>
          <expanded-list>
            <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
            <config>
              <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
              <list-type>expanded</list-type>
            </config>
            <list-type>expanded</list-type>
          </expanded-list>
        </expanded-lists>
      </extended-community>
    </community-lists>
    <action-values>
      <action-value> <!-- operation="delete"-->
        <value>LINE</value>
        <config>
          <value>1</value>
        </config>
      </action-value>
    </action-values>
  </global>
</bgp>

```

```

        <action>deny</action>
    </config>
    <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</extended-community>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip extcommunity-list <100-500> (deny|permit) LINE
```

Configure value

extcommunity Extended Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<extended-community>
<expanded-lists>
<expanded-list>
  <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
  <config>
    <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
    <list-type>expanded</list-type>
  </config>
  <list-type>expanded</list-type>
</expanded-list>
</expanded-lists>
</extended-community>
</community-lists>
</global>

```

```
</bgp>
```

Command Syntax

```
ip extcommunity-list (expanded) WORD (deny|permit) LINE
```

Configure large action number

Large Community list type

Attribute Name: large-action-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<numbered-lists>
<numbered-list>
  <standard-number>1</standard-number>
  <config>
    <standard-number>1</standard-number>
  </config>
<action-values>
<action-value> <!-- operation="delete"-->
  <large-value>LINE</large-value>
  <config>
    <large-value>LINE</large-value>
    <large-action-number>deny</large-action-number>
  </config>
  <large-action-number>deny</large-action-number>
</action-value>
</action-values>
</numbered-list>
</numbered-lists>
</large-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip large-community-list <1-99> (deny|permit) [AAaa:NNnn:ZZzz]
```

Configure standard type

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<standard-lists>
<standard-list>
  <standard-type>BGP_STANDARD_LIST_TYPE_T</standard-type>
  <config>
    <standard-type>BGP_STANDARD_LIST_TYPE_T</standard-type>
    <list-type>standard</list-type>
  </config>
  <list-type>standard</list-type>
</standard-list>
</standard-lists>
</large-community>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip large-community-list (standard) WORD (deny|permit) [AAaa:NNnn:ZZzz]
```

Configure action-values action

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<expanded-lists>
<expanded-list>
  <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
  <config>
    <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>

```

```

        <list-type>expanded</list-type>
    </config>
    <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <value>LINE</value>
    <config>
        <value>LINE</value>
        <action>deny</action>
    </config>
    <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</large-community>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip large-community-list <100-500> (deny|permit) LINE
```

Configure action-values action

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<expanded-lists>
<expanded-list>
    <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
    <config>
        <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
        <list-type>expanded</list-type>
    </config>
    <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <value>LINE</value>
    <config>
        <value>LINE</value>
        <action>deny</action>
    </config>

```

```

        <action>deny</action>
    </action-value>
</action-values>
</expanded-list>
</expanded-lists>
</large-community>
</community-lists>
</global>
</bgp>

```

Command Syntax

```
ip large-community-list (expanded) WORD (deny|permit) LINE
```

Configure access list name

Use this attribute to define a BGP Autonomous System (AS) path access list. A named community list is a filter based on regular expressions. If the regular expression matches the specified string representing the AS path of the route, then the permit or deny condition applies. Use this attribute to define the BGP access list globally.

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <as-path-access-lists>
      <as-path-access-list> <!-- operation="delete"-->
        <access-list-regular-expression>LINE</access-list-regular-expression>
        <config>
          <access-list-regular-expression>LINE</access-list-regular-expression>
          <access-list-action>deny</access-list-action>
          <access-list-name>WORD</access-list-name>
        </config>
        <access-list-action>deny</access-list-action>
        <access-list-name>WORD</access-list-name>
      </as-path-access-list>
    </as-path-access-lists>
  </global>
</bgp>

```

Command Syntax

```
ip as-path access-list WORD (deny|permit) LINE
```

Configure address family name

Use this attribute to specify address family name

This command is supported when following feature are enabled MPLS feature enabled

Attribute Name: address-family-name

Attribute Type: enum (all-afs|vpnv4|vpnv6)

Attribute Name: label-alloc-type

Attribute Type: enum (per-prefix|per-vrf)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <mpls-l3vpn-label-modes>
      <mpls-l3vpn-label-mode> <!-- operation="delete"-->
        <vrf-name>0</vrf-name>
        <config>
          <vrf-name>0</vrf-name>
          <address-family-name>all-afs</address-family-name>
          <label-alloc-type>per-prefix</label-alloc-type>
        </config>
        <address-family-name>all-afs</address-family-name>
      </mpls-l3vpn-label-mode>
    </mpls-l3vpn-label-modes>
  </global>
</bgp>
```

Command Syntax

```
mpls label mode (all-afs|vpnv4|vpnv6) all-vrfs (per-prefix|per-vrf)
```

Configure vrf name

Use this attribute to specify address family name

This command is supported when following feature are enabled MPLS feature enabled

Attribute Name: address-family-name

Attribute Type: enum (all-afs|vpnv4|vpnv6)

Attribute Name: label-alloc-type

Attribute Type: enum (per-prefix|per-vrf)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <mpls-l3vpn-label-modes>
      <mpls-l3vpn-label-mode> <!-- operation="delete"-->
        <vrf-name>BGP_VRF_TYPE_T</vrf-name>
        <config>
          <vrf-name>0</vrf-name>
          <address-family-name>all-afs</address-family-name>
          <label-alloc-type>per-prefix</label-alloc-type>
        </config>
        <address-family-name>all-afs</address-family-name>
      </mpls-l3vpn-label-mode>
    </mpls-l3vpn-label-modes>
  </global>
```

```
</bgp>
```

Command Syntax

```
mpls label mode (all-afs|vpnv4|vpnv6) vrf WORD (per-prefix|per-vrf)
```

Configure enable per prefix label mode

Use this attribute to configure mpls label mode

This command is supported when following feature are enabled MPLS feature enabled, bgp 6PE feature enabled

Attribute Name: enable-per-prefix-label-mode

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <mpls-6pe>
      <config>
        </enable-per-prefix-label-mode><!-- operation="delete"-->
      </config>
    </mpls-6pe>
  </global>
</bgp>
```

Command Syntax

```
mpls label mode 6pe per-prefix
```

Configure options

Use this attribute to enable all BGP troubleshooting functions. Use this attribute without any parameters to turn on normal bgp debug information.

Attribute Name: options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <global>
    <debug>
      <config>
        <options>all</options> <!-- operation="delete"-->
      </config>
    </debug>
  </global>
</bgp>
```

Command Syntax

```
debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
evpn-info-oplog|disable-all-info-oplog|rpki)
```

restart bgp graceful

Netconf RPC payload

```
<bgp-graceful-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
restart bgp graceful
```

clear bgp statistics

Netconf RPC payload

```
<clear-bgp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
clear bgp statistics
```

snmp restart bgp

Netconf RPC payload

```
<bgp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
snmp restart bgp
```

debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf RPC payload

```
<bgp-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<terminal-debug-options>all</terminal-debug-options>
</bgp-debug-on>
```

Command Syntax

```
debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
evpn-info-oplog|disable-all-info-oplog|rpki)
```

no debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf RPC payload

```
<bgp-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<terminal-debug-options>all</terminal-debug-options>
</bgp-debug-off>
```

Command Syntax

```
no debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
evpn-info-oplog|disable-all-info-oplog|rpki)
```

no debug all bgp

Netconf RPC payload

```
<bgp-all-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
no debug all bgp
```

IPI-BGP-INSTANCE

Configure no external fail over

Use this attribute to reset a BGP session immediately, if the interface used for BGP connection goes down.

Attribute Name: no-external-fail-over

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  </no-external-fail-over><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no bgp fast-external-failover
```

Configure no best path tie break

Use this attribute to always select a preferred older route even when the `bestpathCompareRouterId` attribute is configured

Attribute Name: `no-best-path-tie-break`

Attribute Type: `uint8`

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  </no-best-path-tie-break><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no bgp bestpath tie-break-on-age
```

Configure inbound route filter disable

Use this attribute to enable the MPLS (Multiprotocol Label Switching) VPN/BGP inbound route filter. This attribute is used to control the installation of routing information into the BGP table. When a router runs MPLS VPN/BGP PE, it exchanges routing information with a routing distinguisher. By default, routing information that does not match the configured routing distinguisher value is not installed. When the local box has two VRFs where each routing distinguisher value is 10:100 and 20:200, routing information with routing distinguisher 10:200 is not installed into BGP table.

Attribute Name: `inbound-route-filter-disable`

Attribute Type: `uint8`

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </inbound-route-filter-disable><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no bgp inbound-route-filter
```

Configure external route leak disable

Use this attribute to disable external route leak.

Attribute Name: external-route-leak-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </external-route-leak-disable><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no bgp external-route-leak
```

Configure no client route reflection

Use this attribute to configure routers as route reflectors. Route reflectors are used when all Interior Border Gateway Protocol (iBGP) speakers are not fully meshed. If the clients are fully meshed the route reflector is not required

Attribute Name: no-client-route-reflection

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  </no-client-route-reflection><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no bgp client-to-client reflection
```

Configure med type

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0, making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <med-type>3</med-type> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp bestpath med (confed) missing-as-worst
```

Configure bgp as

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0, making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <med-type>3</med-type> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath med (missing-as-worst) confed
```

Configure bgp-instances bgp-as

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
router bgp <1-4294967295>
```

Configure router id

Use this attribute to manually configure a fixed router ID as a BGP router identifier. When this attribute is used to configure a fixed router ID, the current router identifier is overridden and the peers are reset.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp router-id A.B.C.D
```

Configure cluster id

Use this attribute to configure the cluster ID if the BGP cluster has more than one route reflector. A cluster includes route reflectors and its clients. Usually, each cluster is identified by the router ID of its single route reflector but to increase redundancy sometimes a cluster may have more than one route reflector. All router reflectors in such a cluster are then identified by a cluster ID. The clusterId attribute is used to configure the 4 byte cluster ID for clusters with more than one route reflectors in an IPv4 address format.

Attribute Name: cluster-id

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <cluster-id>BGP_CLUSTER_ID_T</cluster-id>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp cluster-id (A.B.C.D|<1-4294967295>)
```

Configure local preference

Use this attribute to change the default local preference value. Local preference indicates the preferred path when there are multiple paths to the same destination. The path having a higher preference is preferred. The preference is sent to all routers and access servers in the local autonomous system.

Attribute Name: local-preference

Attribute Type: uint32

Default Value: 100

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <local-preference>0</local-preference> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp default local-preference <0-4294967295>
```

Configure graceful shutdown capable

Use this attribute to enable the graceful shutdown capability at the router level and make available the graceful-shutdown related attributes at the router and BGP neighbor levels.

Attribute Name: graceful-shutdown-capable

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </graceful-shutdown-capable><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut-capable
```

Configure graceful shutdown

Use this attribute to gracefully shut down all BGP IPv4 sessions under this router. The BGP graceful shutdown feature reduces packet loss during maintenance activity.

Attribute Name: graceful-shutdown

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </graceful-shutdown><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut
```

Configure graceful shutdown local preference

Use this attribute to set the local preference of the router to use during graceful shutdown. The local preference value indicates the preferred path when there are multiple paths to the same destination in a single routing database. The path with a higher preference value is the preferred one. The preferred path is sent to all routers and access servers in the local autonomous system.

Attribute Name: graceful-shutdown-local-preference

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <graceful-shutdown-local-preference>0</graceful-shutdown-local-preference>
    </bgp-instance>
  </bgp-instances>
<!-- operation="delete"-->
</bgp>
```

Command Syntax

```
bgp g-shut-local-preference <0-4294967295>
```

Configure log neighbor changes

Use this attribute to enable logging of status change messages without turning on debug bgp attributes. Product has many logging services for neighbor status, including debug bgp fsm and debug bgp events. However, these attributes cause system performance degradation. If you need to log neighbor status changes only, IP Infusion Inc. recommends turning off all debug attributes and using the setLogNbrChanges attribute instead.

Attribute Name: log-neighbor-changes

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </log-neighbor-changes><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp log-neighbor-changes
```

Configure scan interval

Use this attribute to configure scanning intervals of BGP routers. This interval is the period after which router checks the validity of the routes in its database. To disable BGP scanning, set the scan-time interval to 0 seconds.

Attribute Name: scan-interval

Attribute Type: uint32

Default Value: 60

Attribute Range: 0-60

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <scan-interval>0</scan-interval> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp scan-time <0-60>
```

Configure best path dont compare originator

Use this attribute to change the default bestpath selection by not comparing an originator-ID for an identical EBGp path

Attribute Name: best-path-dont-compare-originator

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </best-path-dont-compare-originator><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath dont-compare-originator-id
```

Configure enable deterministic med

Use this attribute to compare the Multi Exit Discriminator (MED) variable when choosing among routes advertised by different peers in the same autonomous system. MED is compared after BGP attributes weight, local preference, AS-path and origin have been compared and are equal. For a correct comparison result, enable this attribute on all routers in a local AS. After enabling this attribute, all paths for the same prefix are grouped together and arranged according to their MED value. Based on this comparison, the best path is then chosen. This attribute compares MED variable when choosing routes advertised by different peers in the same AS, to compare MED, when choosing routes from neighbors in different ASs use the compareMed attribute. When the deterministicMed attribute is set, routes from the same AS are grouped together, and the best routes of each group are compared.

Attribute Name: enable-deterministic-med

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </enable-deterministic-med><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp deterministic-med
```

Configure enforce first as for ebgp

Use this attribute to enforce the first AS for eBGP routes. This attribute specifies that any updates received from an external neighbor that do not have the neighbors configured Autonomous System (AS) at the beginning of the AS_PATH in the received update must be denied. Enabling this feature adds to the security of the BGP network by not allowing traffic from unauthorized systems.

Attribute Name: enforce-first-as-for-ebgp

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </enforce-first-as-for-ebgp><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp enforce-first-as
```

Configure local as count

Use this attribute to set the number of times the local-AS (Autonomous System) is to be prepended.

Attribute Name: local-as-count

Attribute Type: uint8

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <local-as-count>2</local-as-count> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp as-local-count <2-64>
```

Configure bgp-instance med-type

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0, making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <med-type>confed</med-type> <!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath med (confed|missing-as-worst|remove-recv-med|remove-send-med)
```

Configure multi path relax

Use this attribute to relax the same AS-Path requirement so any candidate eBGP AS-Path with the same AS-path length might be used for eBGP load-balancing. This feature does not load-balance between eBGP and iBGP paths. Normally eBGP load-balancing requires the candidate routes to be equal-cost paths with identical BGP attributes having the same weight, Local-Pref, AS-Path (both the AS numbers and the AS pathlength), origin, MED, and different next-hop.

Attribute Name: multi-path-relax

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

    <config>
      <bgp-as>1</bgp-as>
    </config>
  </multi-path-relax><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp bestpath as-path multipath-relax
```

Configure enable mpls nexthop tracking

Use this attribute to enable mpls nexthop address tracking. MPLS Nexthop address tracking is an event-driven notification system that monitors the status of LSP installed in the NSM and reports changes that affect internal BGP (iBGP) or external BGP (eBGP) prefixes directly to the BGP process. This improves the overall BGP convergence time, by allowing BGP to respond rapidly to nexthop changes for FTN installed in the NSM. If MPLS nexthop tracking is enabled after certain routes are learned, the registration of all nexthops for selected BGP routes is done after the mpls nexthop tracking feature is enabled. If MPLS nexthop tracking is disabled, and if there are still some selected BGP routes, BGP de-registers the nexthops of all selected BGP routes from NSM.

Attribute Name: enable-mpls-nexthop-tracking

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </enable-mpls-nexthop-tracking><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
mpls-nexthop-tracking
```

Configure ignore aigp for bestpath

Use this config to ignore aigp attr in BGP best-path selection algorithm.

Attribute Name: ignore-aigp-for-bestpath

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```



```
<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  </ignore-aigp-for-bestpath><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath aigp ignore
```

Configure auto policy soft reset

Enable automatic soft-reset of BGP peers when their configured route policy is modified

Attribute Name: auto-policy-soft-reset

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      </auto-policy-soft-reset><!-- operation="delete"-->
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp auto-policy-soft-reset enable
```

Configure identifier

Use this attribute to specify a BGP confederation identifier

Attribute Name: identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

    <config>
      <bgp-as>1</bgp-as>
    </config>
  <confederation>
    <config>
      <identifier>1</identifier> <!-- operation="delete"-->
    </config>
  </confederation>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp confederation identifier <1-4294967295>
```

Configure peer as number

Use this attribute to specify peer AS number in BGP confederation

Attribute Name: peer-as-number

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <confederation>
      <config>
        <peer-as-number>1</peer-as-number> <!-- operation="delete"-->
      </config>
    </confederation>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp confederation peers .<1-4294967295>
```

Configure confed vrf name

Use this attribute to specify a BGP confederation vrf identifier

Attribute Name: identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <confederation-vrfs>
        <confederation-vrf>
          <confed-vrf-name>NAME</confed-vrf-name>
          <config>
            <confed-vrf-name>WORD</confed-vrf-name>
          </config>
          <identifier>1</identifier> <!-- operation="delete"-->
        </confederation-vrf>
      </confederation-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp confederation vrf NAME identifier <1-4294967295>
```

Configure confederation-vrf peer-as-number

Use this attribute to specify peer AS number in BGP confederation vrf

Attribute Name: peer-as-number

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <confederation-vrfs>
        <confederation-vrf>
          <confed-vrf-name>NAME</confed-vrf-name>
          <config>
            <confed-vrf-name>WORD</confed-vrf-name>
            <peer-as-number>1</peer-as-number> <!-- operation="delete"-->
          </config>
        </confederation-vrf>
      </confederation-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```
</confederation-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp confederation vrf NAME peers .<1-4294967295>
```

Configure enable graceful restart

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor. The stalepath-time parameter is used to set the maximum time to preserve stale paths from a gracefully restarted neighbor. All stalepaths, unless reinstated by the neighbor after a re-establishment, will be deleted at the expiration of this timer.

Attribute Name: enable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <graceful-restart>
        <config>
          </enable-graceful-restart><!-- operation="delete"-->
        </config>
      </graceful-restart>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp graceful-restart
```

Configure restart time

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor.

Attribute Name: restart-time

Attribute Type: uint32

Default Value: 90

Attribute Range: 1-3600

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <graceful-restart>
  <config>
    <restart-time>1</restart-time> <!-- operation="delete"-->
  </config>
</graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp graceful-restart restart-time <1-3600>
```

Configure stale path max retention time

Use this attribute to enable BGP graceful-restart capabilities. The stalepath-time parameter is used to set the maximum time to preserve stale paths from a gracefully restarted neighbor. All stalepaths, unless reinstated by the neighbor after a re-establishment, will be deleted at the expiration of this timer.

Attribute Name: stale-path-max-retention-time

Attribute Type: uint32

Default Value: 360

Attribute Range: 1-3600

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <graceful-restart>
  <config>
    <stale-path-max-retention-time>1</stale-path-max-retention-time> <!--
operation="delete"-->
  </config>
</graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp graceful-restart stalepath-time <1-3600>
```

Configure route selection max defer time

Use this attribute to specify the update-delay value for a graceful-restart capable router. The update-delay value is the maximum time a graceful-restart capable router, which is restarting, will defer route-selection and advertisements to all its graceful-restart capable neighbors. This maximum time starts from the instance the first neighbor attains established state after restart. The restarting router prematurely terminates this timer when end-of-rib markers are received from all its graceful-restart capable neighbors.

Attribute Name: route-selection-max-defer-time

Attribute Type: uint32

Default Value: 120

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <graceful-restart>
        <config>
          <route-selection-max-defer-time>1</route-selection-max-defer-time> <!--
operation="delete"-->
        </config>
      </graceful-restart>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp update-delay <1-3600>
```

Configure graceful reset

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor.

Attribute Name: graceful-reset

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <graceful-restart>
    <config>
      </graceful-reset><!-- operation="delete"-->
    </config>
  </graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp graceful-restart graceful-reset
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <timers>
        <config>
          <hold-time>0</hold-time>
          <keep-alive>0</keep-alive>
        </config>
      </timers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
timers bgp <0-65535> <0-65535>
```

Configure always compare med

Use this attribute to compare the Multi Exit Discriminator (MED) for paths from neighbors in different autonomous systems. Multi Exit Discriminator (MED) is used in best path selection by BGP. MED is compared after BGP attributes weight, local preference, AS-path and origin have been compared and are equal. MED comparison is done only among paths from the same autonomous system (AS). Use compareMed attribute to allow comparison of MEDs from different ASs. The MED parameter is used to select the best path. A path with lower MED is preferred.

Attribute Name: always-compare-med

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <route-selection>
        <config>
          </always-compare-med><!-- operation="delete"-->
        </config>
      </route-selection>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp always-compare-med
```

Configure ignore as path length

Use this attribute to prevent the router from considering the autonomous system (AS) path length as a factor in the algorithm for choosing a best path route.

Attribute Name: ignore-as-path-length

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <route-selection>
        <config>
          </ignore-as-path-length><!-- operation="delete"-->
        </config>
      </route-selection>
    </bgp-instance>
  </bgp-instances>
</bgp>
```



```

    </config>
  </route-selection>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp bestpath as-path ignore
```

Configure best path compare confed

Use this attribute to allow comparing of the confederation AS path length. This attribute specifies that the AS confederation path length must be used when available in the BGP best path decision process. It is effective only when bestpathAspath attribute has not been used.

Attribute Name: best-path-compare-confed

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <route-selection>
        <config>
          </best-path-compare-confed><!-- operation="delete"-->
        </config>
      </route-selection>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp bestpath compare-confed-aspath
```

Configure external compare router id

Use this attribute to compare router IDs for identical eBGP paths. When comparing similar routes from peers, the BGP router does not consider the router ID of the routes. By default, it selects the first received route. Use this attribute to include router ID in the selection process; similar routes are compared and the route with the lowest router ID is selected. The router ID is the highest IP address on the router, with preference given to loopback addresses. Router ID can be manually set by using the routerIpAddr attribute.

Attribute Name: external-compare-router-id

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <route-selection>
        <config>
          </external-compare-router-id><!-- operation="delete"-->
        </config>
      </route-selection>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp bestpath compare-routerid
```

Configure source ip prefix

Use this attribute to set the administrative distance for ip source prefix.

Attribute Name: source-ip-prefix

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <administrative-distances>
        <administrative-distance> <!-- operation="delete"-->
          <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
          <config>
            <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
            <distance>1</distance>
          </config>
        </administrative-distance>
      </administrative-distances>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
distance <1-255> A.B.C.D/M
```

Configure access list name

Use this attribute to define an administrative distance along with ip source prefix and access list name.

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <administrative-distances>
        <administrative-distance>
          <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
          <config>
            <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
            <distance>1</distance>
          </config>
          <access-list-name>WORD</access-list-name>
        </administrative-distance>
      </administrative-distances>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
distance <1-255> A.B.C.D/M WORD
```

Configure all routes

Use this attribute to allocate label to all the advertised routes

This command is supported when following feature are enabled bgp lu feature

Attribute Name: all-routes

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <allocate-label>
        <config>
          </all-routes><!-- operation="delete"-->
        </config>
      </allocate-label>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
allocate-label all
```

Configure route map name

Use this attribute to allocate label to those advertised routes that match route-map.

This command is supported when following feature are enabled bgp lu feature

Attribute Name: route-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <allocate-label>
        <config>
          <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
        </config>
      </allocate-label>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
allocate-label route-map WORD
```

IPI-BGP-ADDRESS-FAMILY

Configure safi

BGP sub address family identifier

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family> <!-- operation="delete"-->
          <safi>labeled-unicast</safi>
          <config>
            <safi>labeled-unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
address-family ipv4 labeled-unicast
```

Configure additional path fast reroute

Use this attribute to specify fast-reroute tie-break secondary-path

Attribute Name: additional-path-fast-reroute

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```

        <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </additional-path-fast-reroute><!-- operation="delete"-->
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp fast-reroute tie-break secondary-path
```

Configure additional paths mode

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure bgp as

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure afi

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```

        <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure additional path select all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <additional-path-select-all><!-- operation="delete"-->
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>

```


Command Syntax

```
bgp additional-paths select all
```

Configure address-family additional-path-select-all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          </additional-path-select-all><!-- operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths select all
```

Configure address-family additional-path-select-all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>

```

```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </additional-path-select-all><!-- operation="delete"-->
    </address-family>
    </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths select all
```

Configure additional paths best select count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
        </address-family>
        </address-families>
    </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths select best <2-3>
```

Configure address-family additional-paths-best-select-count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <afi>ipv4</afi>
            <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
          </address-family>
        </address-families>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
bgp additional-paths select best <2-3>
```

Configure address-family additional-paths-best-select-count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths select best <2-3>
```

Configure no client route reflection

Use this attribute to configure routers as route reflectors. Route reflectors are used when all Interior Border Gateway Protocol (iBGP) speakers are not fully meshed. If the clients are fully meshed the route reflector is not required.

Attribute Name: no-client-route-reflection

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </no-client-route-reflection><!-- operation="delete"-->
      </address-family>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no bgp client-to-client reflection
```

Configure enable auto summary

Use this attribute to enable sending summarized routes by a BGP speaker to its peers. Auto-summary is used by a BGP router to advertise summarized routes to its peers. Auto-summary can be enabled if certain routes have already been advertised: in this case, configuring auto-summary advertises the summarized routes first, then corresponding non-summarized routes are withdrawn. If certain routes have already been advertised, and auto-summary is disabled, non-summarized routes are first advertised, then the corresponding summarized routes are withdrawn from all the connected peers.

Attribute Name: enable-auto-summary

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          </enable-auto-summary><!-- operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
auto-summary
```

Configure enable additional path pic

Use this attribute to enable the additional paths in the BGP table, install the indirect nexthop in RIB

Attribute Name: enable-additional-path-pic

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <afi>ipv4</afi>
            </enable-additional-path-pic><!-- operation="delete"-->
          </address-family>
        </address-families>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
bgp additional-paths install
```

Configure enable network igp sync

Use this attribute to enable IGP synchronization for BGP static network routes

Attribute Name: enable-network-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
```

```

        <afi>ipv4</afi>
        </enable-network-igp-sync><!-- operation="delete"-->
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

network synchronization

Configure multi path

Use this attribute to enable L3VPN multipath for ECMP

Attribute Name: multi-path

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          </multi-path><!-- operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

multi-path

Configure address-family multi-path

Use this attribute to enable L3VPN multipath for ECMP

Attribute Name: multi-path

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          </multi-path><!-- operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
multi-path
```

Configure enable igp sync

Use this attribute to enable IGP synchronization of Internal BGP (iBGP) learned routes with the Internal Gateway Protocol (IGP) system. Synchronization is used when a BGP router should not advertise routes learned from iBGP neighbors, unless those routes are also present in an IGP (for example, OSPF). Synchronization may be enabled when all the routers in an autonomous system do not speak BGP, and the autonomous system is a transit for other autonomous systems.

Attribute Name: enable-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>

```



```

        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </enable-igp-sync><!-- operation="delete"-->
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

synchronization

Configure enable bgp implicit null

Use this attribute to enable BGP LU implicit null.

Attribute Name: enable-bgp-implicit-null

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <afi>ipv4</afi>
            </enable-bgp-implicit-null><!-- operation="delete"-->
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

bgp implicit-null

Configure backdoor

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
        </address-family>
      </address-families>
      <network-lists>
        <network-list>
          <local-network-prefix>A.B.C.D</local-network-prefix>
          <config>
            <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
            <network-rmap-name>WORD</network-rmap-name>
          </config>
          <backdoor>
          </backdoor>
        </network-list>
      </network-lists>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
network (A.B.C.D | A.B.C.D/M) (route-map WORD|) (backdoor|)
```

Configure local network prefix

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <network-lists>
            <network-list>
              <local-network-prefix>A.B.C.D</local-network-prefix>
              <config>
                <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
                <network-rmap-name>WORD</network-rmap-name>
              </config>
            </network-list>
          </network-lists>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
network (X:X::X:X/M) (route-map WORD|) (backdoor|)
```

Configure aggregate address

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route. The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: union

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <aggregate-address-lists>
      <aggregate-address-list> <!-- operation="delete"-->
        <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
        <config>
          <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
        </config>
      </aggregate-address-list>
      </aggregate-address-lists>
    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address (A.B.C.D/M|A.B.C.D A.B.C.D|X:X::X:X/M)
```

Configure aggregate type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

<address-families>
<address-family>
  <safi>unicast</safi>
  <config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <afi>ipv4</afi>
<aggregate-address-lists>
<aggregate-address-list>
  <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
  <config>
    <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
  </config>
  <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
</aggregate-address-list>
</aggregate-address-lists>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address as-set
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
  </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

    <afi>ipv4</afi>
    <aggregate-address-lists>
    <aggregate-address-list>
        <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    </config>
        <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    </config>
        <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
    </aggregate-address-list>
</aggregate-address-lists>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
        <aggregate-address-lists>
        <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
        </aggregate-address-list>
        </address-family>
        </address-families>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
    </aggregate-address-list>
</aggregate-address-lists>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address as-set summary-only
```

Configure aggregate-address-list aggregate-type

The `aggregate-type` attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: `aggregate-type`

Attribute Type: enum (`as-set|summary-only|as-set-and-summary-only`)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <aggregate-address-lists>
          <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
            <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
          </aggregate-address-list>
        </aggregate-address-lists>
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>

```

```
</bgp>
```

Command Syntax

```
aggregate-address summary-only as-set
```

Configure local

Use this attribute to define an administrative distance for local routes. Local routes are routes that is redistributed from another process. A distance is a rating of trustworthiness of a router. The higher the distance the lower the trust rating. If the administrative distance is changed, it could create inconsistency in the routing table and obstruct routing.

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <distances>
            <distance> <!-- operation="delete"-->
              <local>1</local>
            <config>
              <local>1</local>
              <ibgp>1</ibgp>
              <ebgp>1</ebgp>
            </config>
            <ibgp>1</ibgp>
            <ebgp>1</ebgp>
          </distance>
        </distances>
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>
```


Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure ebgp

Use this attribute to define an administrative distance for local routes. Local routes are routes that is redistributed from another process. A distance is a rating of trustworthiness of a router. The higher the distance the lower the trust rating. If the administrative distance is changed, it could create inconsistency in the routing table and obstruct routing.

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <distances>
            <distance> <!-- operation="delete"-->
              <local>1</local>
            <config>
              <local>1</local>
              <ibgp>1</ibgp>
              <ebgp>1</ebgp>
            </config>
            <ibgp>1</ibgp>
            <ebgp>1</ebgp>
          </distance>
        </distances>
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure ebgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <maximum-paths>
            <config>
              <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
            </config>
          </maximum-paths>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure maximum-paths ebgp-max-path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <maximum-paths>
      <config>
        <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
      </config>
    </maximum-paths>
    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure ibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for iBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path.

Attribute Name: ibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>

```

```

    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <maximum-paths>
    <config>
      <ibgp-max-path>2</ibgp-max-path> <!-- operation="delete"-->
    </config>
  </maximum-paths>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
max-paths ibgp <2-64>
```

Configure eibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eiBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: eibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <maximum-paths>
            <config>
              <eibgp-max-path>2</eibgp-max-path> <!-- operation="delete"-->
            </config>
          </maximum-paths>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
max-paths eibgp <2-64>
```

Configure map name

Use this attribute to enable or disable suppression/modification of incoming BGP updates to IP RIB/FIB table installation. In a dedicated route reflector, all the routes it receives may not be required to be stored or only few selected routes need to be stored, because it may not lie in the data path. Table maps are particularly useful to attain this restriction. When map-name attribute is set, the route map referenced in the map-name attribute shall be used to set certain properties (such as the traffic index) of the routes for installation into the RIB. The route is always downloaded, regardless of whether it is permitted or denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <table-map>
            <config>
              <map-name>WORD</map-name>
            </config>
          </table-map>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
table-map WORD
```

Configure table map filter

When tableMapFilter attribute is given in the table map attribute, the route map referenced is used to control whether a BGP route is to be downloaded to the IP RIB (hence the filter). A BGP route is not downloaded to the RIB if it is denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: table-map-filter

Attribute Type: boolean

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <afi>ipv4</afi>
          <table-map>
            <config>
              <map-name>WORD</map-name> <!-- operation="delete"-->
              <table-map-filter>true</table-map-filter> <!-- operation="delete"-->
            </config>
          </table-map>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
table-map WORD filter
```

Configure enable dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening> <!-- operation="delete"-->
              <enable-dampening>enable-dampening</enable-dampening>
            <config>
              <enable-dampening>enable-dampening</enable-dampening>
            </config>
          </route-flap-dampening>
        </route-flap-dampenings>
      </address-family>
    </address-families>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening
```

Configure route-flap-dampenings enable-dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <route-flap-dampenings>
    <route-flap-dampening> <!-- operation="delete"-->
      <enable-dampening>enable-dampening</enable-dampening>
      <config>
        <enable-dampening>enable-dampening</enable-dampening>
      </config>
    </route-flap-dampening>
  </route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

bgp dampening

Configure route-flap-dampenings enable-dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>

```



```

        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <route-flap-dampenings>
    <route-flap-dampening> <!-- operation="delete"-->
        <enable-dampening>enable-dampening</enable-dampening>
    <config>
        <enable-dampening>enable-dampening</enable-dampening>
    </config>
    </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening
```

Configure reach half life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
            </route-flap-dampening>
          </route-flap-dampenings>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <config>
      <enable-dampening>enable-dampening</enable-dampening>
    </config>
    <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
  </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45>
```

Configure route-flap-dampening reach-half-life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
              <config>
                <enable-dampening>enable-dampening</enable-dampening>
              </config>
              <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>

```

```

    </route-flap-dampenings>
  </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45>
```

Configure route-flap-dampening reach-half-life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
              <config>
                <enable-dampening>enable-dampening</enable-dampening>
              </config>
              <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
          </route-flap-dampenings>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
bgp dampening <1-45>
```

Configure max suppress time

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
        </address-family>
      </address-families>
      <route-flap-dampenings>
        <route-flap-dampening>
          <enable-dampening>enable-dampening</enable-dampening>
        </route-flap-dampening>
      </route-flap-dampenings>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

        <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
    </config>
    <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
</route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure reuse penalty

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </config>
    <afi>ipv4</afi>
    <route-flap-dampenings>
    <route-flap-dampening>
        <enable-dampening>enable-dampening</enable-dampening>
    <config>
        <enable-dampening>enable-dampening</enable-dampening>
        <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
        <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
        <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
    </config>
        <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
    </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure suppress penalty

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<address-families>
<address-family>
  <safi>unicast</safi>
  <config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <afi>ipv4</afi>
  <route-flap-dampenings>
  <route-flap-dampening>
    <enable-dampening>enable-dampening</enable-dampening>
    <config>
      <enable-dampening>enable-dampening</enable-dampening>
      <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
      <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
      <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
    </config>
    <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
  </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreachable half life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreachable-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
              <config>
                <enable-dampening>enable-dampening</enable-dampening>
                <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
                <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
                <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
                <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
              </config>
                <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
          </route-flap-dampenings>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure route-flap-dampening unreach-half-life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreachable-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
        </address-family>
      </address-families>
      <route-flap-dampenings>
        <route-flap-dampening>
          <enable-dampening>enable-dampening</enable-dampening>
          <config>
            <enable-dampening>enable-dampening</enable-dampening>
            <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
            <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
            <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
          </config>
          <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
        </route-flap-dampening>
      </route-flap-dampenings>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure route-flap-dampening unreachable-half-life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreachable-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>

```

```

    <afi>ipv4</afi>
  <route-flap-dampenings>
  <route-flap-dampening>
    <enable-dampening>enable-dampening</enable-dampening>
    <config>
      <enable-dampening>enable-dampening</enable-dampening>
      <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
      <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
      <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
      <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
    </config>
    <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
  </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure dampening rmap name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>

```

```

        <config>
            <enable-dampening>enable-dampening</enable-dampening>
        </config>
        <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
    </route-flap-dampening>
</route-flap-dampenings>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening route-map WORD
```

Configure route-flap-dampening dampening-rmap-name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                <afi>ipv4</afi>
            </address-family>
        </address-families>
        <route-flap-dampenings>
            <route-flap-dampening>
                <enable-dampening>enable-dampening</enable-dampening>
                <config>
                    <enable-dampening>enable-dampening</enable-dampening>
                </config>
                <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
            </route-flap-dampening>
        </route-flap-dampenings>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening route-map WORD
```

Configure route-flap-dampening dampening-rmap-name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
              <config>
                <enable-dampening>enable-dampening</enable-dampening>
              </config>
              <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
            </route-flap-dampening>
          </route-flap-dampenings>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening route-map WORD
```

Configure protocol type

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: protocol-type

Attribute Type: enum (connected|static|rip|ospf|isis|connected-host-routes)

Attribute Name: redist-route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <route-redistribute-lists>
            <route-redistribute-list> <!-- operation="delete"-->
              <protocol-type>connected</protocol-type>
              <config>
                <protocol-type>connected</protocol-type>
                <redist-route-map-name>WORD</redist-route-map-name>
              </config>
            </route-redistribute-list>
          </route-redistribute-lists>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|isis|connected-host-routes) (route-map WORD|)
```

Configure afi

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpn4|vpn6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: ospf-instance-number

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <afi>ipv4</afi>
          <safi>unicast</safi>
          <bgp-redistributes-ospf>
            <bgp-redistribute-ospf>
              <ospf-instance-number>""</ospf-instance-number>
            </bgp-redistribute-ospf>
          </bgp-redistributes-ospf>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
redistribute (ospf) (WORD|<1-65535>)
```

Configure redistribute ospf route map

Use this attribute to specify route map to redistribute routes from OSPF into BGP.

Attribute Name: redistribute-ospf-route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <bgp-redistributes-ospf>
            <bgp-redistribute-ospf>
              <ospf-instance-number>"</ospf-instance-number>
              <config>
                <ospf-instance-number>"</ospf-instance-number>
              </config>
              <redistribute-ospf-route-map>WORD</redistribute-ospf-route-map> <!--
- operation="delete"-->
            </bgp-redistribute-ospf>
          </bgp-redistributes-ospf>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
redistribute (ospf) route-map WORD
```

Configure bgpSRv6enable

This attribute enable Segment Routing V6

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```



```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    <bgp-srv6>
    <config>
      </bgpSRv6enable>
    </config>
  </bgp-srv6>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
segment-routing srv6
```

Configure bgpSRv6LocatorName

Locator name

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>

```

```

    </config>
    <afi>ipv4</afi>
  <bgp-srv6>
  <locators>
  <locator> <!-- operation="delete"-->
    <bgpSRv6LocatorName>WORD</bgpSRv6LocatorName>
    <config>
      <bgpSRv6LocatorName>WORD</bgpSRv6LocatorName>
    </config>
  </locator>
</locators>
</bgp-srv6>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
srv6-locator WORD
```

Configure validation enable

Enable BGP Origin Validation feature

This command is supported when following feature are enabled BGP RPKI

Attribute Name: validation-enable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <as-origin>
            <config>
              </validation-enable><!-- operation="delete"-->
            </config>
          </as-origin>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </address-family>
  </address-families>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp origin-as validation-enable
```

Configure bestpath use validity

Enable to use BGP Origin Validation RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-use-validity

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <as-origin>
            <config>
              </bestpath-use-validity><!-- operation="delete"-->
            </config>
          </as-origin>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
bgp origin-as bestpath use-validity
```

Configure bestpath allow invalid

Enable to handle a route with invalid RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-allow-invalid

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <as-origin>
            <config>
              </bestpath-allow-invalid><!-- operation="delete"-->
            </config>
          </as-origin>
        </address-family>
      </address-families>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp origin-as bestpath allow-invalid
```

clear ip bgp (A.B.C.D|X:X::X:X|WORD) (description LINE|)

Attribute Name: arg

Attribute Type: union

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
<ipi-bgp-address-family_clear-ip-bgp-peer xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <arg>A.B.C.D|X:X::X:X</arg>
  <peer-reset-description>1</peer-reset-description>
</ipi-bgp-address-family_clear-ip-bgp-peer>
```

Command Syntax

```
clear ip bgp (A.B.C.D|X:X::X:X|WORD) (description LINE|)
```

IPI-BGP-PEER-GROUP

Configure peer group tag

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group> <!-- operation="delete"-->
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>0</peer-group-range>
          </config>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group
```

Configure bgp as

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group> <!-- operation="delete"-->
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>A.B.C.D/M</peer-group-range>
          </config>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group range A.B.C.D/M
```

Configure peer group range

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group> <!-- operation="delete"-->
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>X:X::X:X/M</peer-group-range>
          </config>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD peer-group range X:X::X:X/M
```

Configure group limit

This attribute specifies maximum number of peer-groups in a dynamic peer-group

Attribute Name: group-limit

Attribute Type: uint16

Attribute Range: 1-512

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            <group-limit>1</group-limit> <!-- operation="delete"-->
          </config>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD limit <1-512>
```

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer-group

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          </enable-peer-bfd><!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer-group with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
```



```

    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </enable-peer-bfd-multihop><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD fall-over bfd multihop
```

Configure peer as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <peer-as>1</peer-as> <!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remote-as <1-4294967295>
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          </graceful-shut><!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD g-shut
```

Configure graceful shutdown timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
```

```

    </config>
    <peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
            <peer-group-tag>WORD</peer-group-tag>
        </config>
        <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
    </peer-group>
    </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD g-shut-timer <10-65535>
```

Configure peer restart time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
        </peer-group>
        </peer-groups>
    </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <peer-description>LINE</peer-description> <!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD description LINE
```

Configure peer connect interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD timers connect <1-65535>
```

Configure peer as origin interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD as-origination-interval <1-65535>
```

Configure min route advertisement interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <min-route-advertisement-interval>0</min-route-advertisement-interval>
        <!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertisement-interval <0-65535>
```

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer-group. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer-group in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          </enable-dynamic-capability><!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability dynamic
```

Configure collide established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          </collide-established><!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
neighbor WORD collide-established
```

Configure source identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD update-source WORD
```

Configure enforce multi hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```



```

    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        </enforce-multi-hop><!-- operation="delete"-->
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD enforce-multihop
```

Configure neighbor override capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        </neighbor-override-capability><!-- operation="delete"-->
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD override-capability
```

Configure neighbor strict capability match

Close the BGP connection if capability value does not match the remote peer-group.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          </neighbor-strict-capability-match><!-- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD strict-capability-match
```

Configure disallow infinite hold time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer-group (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </disallow-infinite-hold-time><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD disallow-infinite-holdtime
```

Configure neighbor passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        </neighbor-passive><!-- operation="delete"-->
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD passive
```

Configure peer shutdown description

Use this attribute to send shutdown communication message to inform peer the reason for the shutdown of the BGP session.

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Attribute Name: peer-shutdown

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            </peer-shutdown><!-- operation="delete"-->
          </config>
          <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD shutdown (description LINE|)
```

Configure peer port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <peer-port>0</peer-port> <!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD port <0-65535>
```

Configure bgp version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
      </peer-group>
    </peer-groups>
  </bgp-instance>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD version (4)
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </enable-ext-opt-param-len><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD extended-optional-param
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD tcp-mss <40-1440>
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <timers>
          <config>
            <hold-time>0</hold-time>
            <keep-alive>0</keep-alive>
          </config>
        </timers>
      </peer-group>
    </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </config>
    </timers>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <ebgp-multihop>
            <config>
              </enabled>
            </config>
          </ebgp-multihop>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <ebgp-multihop>
            <config>
              <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
              </enabled><!-- operation="delete"-->
            </config>
          </ebgp-multihop>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <bgp-passwords>
      <bgp-password>
        <password>WORD</password>
      <config>
        <password>WORD</password>
      </config>
      <auth-key-encrypt>1</auth-key-encrypt>
    </bgp-password>
  </bgp-passwords>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>

```

```

    </config>
    <bgp-passwords>
    <bgp-password>
        <password>WORD</password>
    </bgp-password>
    </bgp-passwords>
    <peer-groups>
    <peer-group>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <optional-as-lists>
            <optional-as-list> <!-- operation="delete"-->
                <optional-as>1</optional-as>
                <config>
                    <optional-as>1</optional-as>
                </config>
            </optional-as-list>
            </optional-as-lists>
        </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>

```

Command Syntax

```
neighbor WORD authentication-key WORD
```

Configure optional as

Use this attribute to specify optional AS number of BGP dynamic peer-group

Attribute Name: optional-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <optional-as-lists>
        <optional-as-list> <!-- operation="delete"-->
          <optional-as>1</optional-as>
          <config>
            <optional-as>1</optional-as>
          </config>
        </optional-as-list>
        </optional-as-lists>
      </peer-group>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD optional-as <1-4294967295>
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <local-as>
            <local-as-list> <!-- operation="delete"-->
              <peer-local-as>1</peer-local-as>
            <config>
              <peer-local-as>1</peer-local-as>
            </config>
            </local-as-list>
          </local-as>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <local-as>
            <local-as-list>
              <peer-local-as>1</peer-local-as>
              <config>
                <peer-local-as>1</peer-local-as>
                </no-prepend-local-as>
                </replace-local-as>
              </config>
            </local-as-list>
          </local-as>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure additional paths mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure afi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure safi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>

```

```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure additional path select all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>

```



```

        <afi>ipv4</afi>
        </additional-path-select-all><!-- operation="delete"-->
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </additional-path-select-all><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </additional-path-select-all><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure additional paths best select count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>

```

```

        <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
    <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
        <afi>ipv4</afi>
        <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths best <2-3>
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
            <config>
                <safi>unicast</safi>

```

```

        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </activate><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>

```

```

<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </activate><!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>

```

```

        <safi>unicast</safi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
</config>
    <afi>ipv4</afi>
    </activate><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </default-peer-route-map-name><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </default-peer-route-map-name><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD default-originate route-map WORD
```

Configure address-family peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <weight>0</weight> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <weight>0</weight> <!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure route server client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>

```

```

    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
    <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
      </route-server-client><!-- operation="delete"-->
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </route-server-client><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-server-client
```

Configure next hop self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </next-hop-self><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </flowspec-validation-disable><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>

```

```

    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
    <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </flowspec-validation-disable><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>

```



```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </flowspec-validation-disable><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-route-reflector><!-- operation="delete"-->

```

```

        </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local

router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>

```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </peer-route-reflector><!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>

```

```

    <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </peer-route-reflector><!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
        <address-family>

```



```

        <safi>unicast</safi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
</config>
    <afi>ipv4</afi>
    </peer-remove-private-as><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>

```

```

        </peer-remove-private-as><!-- operation="delete"-->
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </no-send-community><!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor WORD send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>

```

```

                                <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
                                </address-family>
                                </address-families>
                                </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```


Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer-group>
        </peer-groups>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```

        <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
            <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
- operation="delete"-->
        </address-family>
    </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>

```

```

- operation="delete"-->
    <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
    </address-family>
    </address-families>
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer-group>
        </peer-groups>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer-group>
        </peer-groups>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```



```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      </peer-allow-ebgp-vpn><!-- operation="delete"-->
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </capability-graceful-restart><!-- operation="delete"-->
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>

```

```

        <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </capability-graceful-restart><!-- operation="delete"-->
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>

```

```

        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </capability-graceful-restart><!-- operation="delete"-->
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </capability-graceful-restart><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer-group>
        </peer-groups>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer-group>
        </peer-groups>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD unsuppress-map WORD
```

Configure prefix count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </maximum-prefix>
              </maximum-prefixes>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </maximum-prefix>
              </maximum-prefixes>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">

```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <maximum-prefixes>
              <maximum-prefix>
                <prefix-count>1</prefix-count>
                <config>
                  <prefix-count>1</prefix-count>
                </config>
              </stop-update>
            </maximum-prefix>
          </maximum-prefixes>
        </address-family>
      </address-families>
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <maximum-prefixes>
      <maximum-prefix>
        <prefix-count>1</prefix-count>
        <config>
          <prefix-count>1</prefix-count>
        </config>
        </stop-update>
      </maximum-prefix>
    </maximum-prefixes>
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>

```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <maximum-prefixes>
      <maximum-prefix>
        <prefix-count>1</prefix-count>
        <config>
          <prefix-count>1</prefix-count>
        </config>
      </stop-update>
      </maximum-prefix>
    </maximum-prefixes>
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>

```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <maximum-prefixes>
      <maximum-prefix>
        <prefix-count>1</prefix-count>
        <config>
          <prefix-count>1</prefix-count>
        </config>
        </maximum-prefix-warning>
      </maximum-prefix>
    </maximum-prefixes>
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>

```

```

<bgp-as>1</bgp-as>
<config>
  <bgp-as>1</bgp-as>
</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <maximum-prefixes>
    <maximum-prefix>
      <prefix-count>1</prefix-count>
      <config>
        <prefix-count>1</prefix-count>
      </config>
    </maximum-prefix-warning>
    </maximum-prefix>
  </maximum-prefixes>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                  <threshold-percentage>1</threshold-percentage>
                </maximum-prefix>
              </maximum-prefixes>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in persen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                  <threshold-percentage>1</threshold-percentage>
                </maximum-prefix>
              </maximum-prefixes>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                    <threshold-percentage>1</threshold-percentage>
                  </config>
                </warning-only>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                    <threshold-percentage>1</threshold-percentage>
                  </config>
                </warning-only>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer-group>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
            <distribute-list-filters>
              <distribute-list-filter>
                <filter-direction>in</filter-direction>
                <config>
                  <filter-direction>in</filter-direction>
                </config>
                <access-list-identifier>WORD</access-list-identifier>
              </distribute-list-filter>
            </distribute-list-filters>
          </address-family>
        </address-families>
      </peer-group>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <distribute-list-filters>
        <distribute-list-filter>
          <filter-direction>in</filter-direction>
          <config>
            <filter-direction>in</filter-direction>
          </config>
          <access-list-identifier>WORD</access-list-identifier>
        </distribute-list-filter>
        </distribute-list-filters>
      </address-family>
    </address-families>
  </peer-group>
</peer-groups>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            <as-list-filters>
              <as-list-filter>
                <as-list-direction>in</as-list-direction>
                <config>
                  <as-list-direction>in</as-list-direction>
                </config>
                <as-access-list-identifier>WORD</as-access-list-identifier>
              </as-list-filter>
            </as-list-filters>
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            <as-list-filters>
              <as-list-filter>
                <as-list-direction>in</as-list-direction>
                <config>
                  <as-list-direction>in</as-list-direction>
                </config>
                <as-access-list-identifier>WORD</as-access-list-identifier>
              </as-list-filter>
            </as-list-filters>
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>

```



```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure safi

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <address-families>
            <address-family>
              <afi>ipv4</afi>
              <safi>unicast</safi>
              <peer-group-tag>WORD</peer-group-tag>
              <prefix-list-filters>
                <prefix-list-filter>
                  <config>
                    <prefix-list-name>WORD</prefix-list-name>
                    <prefix-filter-direction>in</prefix-filter-direction>

```

```

        </config>
      </prefix-list-filter>
    </prefix-list-filters>
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure peer group tag

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
    </bgp-instance>
  </bgp-instances>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
    <peer-group>
      <address-families>
        <address-family>
          <afi>ipv4</afi>
        </address-family>
      </address-families>
    </peer-group>
  </peer-groups>
</bgp>

```

```

    <safi>unicast</safi>
    <peer-group-tag>WORD</peer-group-tag>
    <prefix-list-filters>
    <prefix-list-filter>
    <config>
        <prefix-list-name>WORD</prefix-list-name>
        <prefix-filter-direction>in</prefix-filter-direction>
    </config>
    </prefix-list-filter>
    </prefix-list-filters>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure prefix list name

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
    <bgp-as>1</bgp-as>
    <config>

```

```

    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
    <peer-group>
      <address-families>
        <address-family>
          <afi>ipv4</afi>
          <safi>unicast</safi>
          <peer-group-tag>WORD</peer-group-tag>
          <prefix-list-filters>
            <prefix-list-filter>
              <config>
                <prefix-list-name>WORD</prefix-list-name>
                <prefix-filter-direction>in</prefix-filter-direction>
              </config>
            </prefix-list-filter>
          </prefix-list-filters>
        </address-family>
      </address-families>
    </peer-group>
  </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>

```

```

        <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    <route-map-filters>
    <route-map-filter>
        <route-map-direction>in</route-map-direction>
        <config>
            <route-map-direction>in</route-map-direction>
        </config>
        <route-map-name>WORD</route-map-name>
    </route-map-filter>
    </route-map-filters>
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <peer-groups>
    <peer-group>

```

```

    <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <route-map-filters>
    <route-map-filter>
      <route-map-direction>in</route-map-direction>
      <config>
        <route-map-direction>in</route-map-direction>
      </config>
      <route-map-name>WORD</route-map-name>
    </route-map-filter>
  </route-map-filters>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <route-map-filters>
    <route-map-filter>
      <route-map-direction>in</route-map-direction>
      <config>
        <route-map-direction>in</route-map-direction>
      </config>
      <route-map-name>WORD</route-map-name>
    </route-map-filter>
  </route-map-filters>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>

```

```

    <bgp-as>1</bgp-as>
  </config>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <route-map-filters>
      <route-map-filter>
        <route-map-direction>in</route-map-direction>
        <config>
          <route-map-direction>in</route-map-direction>
        </config>
        <route-map-name>WORD</route-map-name>
      </route-map-filter>
    </route-map-filters>
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure admin status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>

```



```

        <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
            <peer-group-tag>WORD</peer-group-tag>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
        <aigp>
        <config>
            <admin-status>disable</admin-status> <!-- operation="delete"-->
        </config>
        </aigp>
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>

```

```

    <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    <aigp>
      <config>
        <admin-status>disable</admin-status> <!-- operation="delete"-->
      </config>
    </aigp>
  </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    </address-family>
    </address-families>
  </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp send med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
    </peer-group>
  </peer-groups>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <aigp>
    <config>
        </aigp-send-med><!-- operation="delete"-->
    </config>
    </aigp>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <aigp>
        <config>
            </aigp-send-med><!-- operation="delete"-->
        </config>
    </aigp>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                <afi>ipv4</afi>
            </config>
            <aigp>
            <config>
                </aigp-send-med><!-- operation="delete"-->
            </config>

```

```

        </aigp>
    </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send med
```

Configure send cost community id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <cost-community>
              <config>
                <point-of-insertion>pre-bestpath</point-of-insertion>
              </config>
            </cost-community>
          </aigp>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <send-cost-community-id>0</send-cost-community-id>
    </config>
</cost-community>
</aigp>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure enable transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
            </address-family>
          </address-families>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </config>
        <afi>ipv4</afi>
        <aigp>
        <cost-community>
        <config>
            <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
            <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
            </enable-transitive><!-- operation="delete"-->
        </config>
        </cost-community>
    </aigp>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
transitive
```

Configure point of insertion

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
        </peer-group>
        </peer-groups>
    </bgp-instance>
</bgp-instances>
</bgp>

```



```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    </address-family>
    </address-families>
    <peer-group>
    <peer-groups>
    </peer-groups>
    </peer-group>
    </bgp-instance>
    </bgp-instances>
    </bgp>

```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>

```

```

</config>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <aigp>
    <cost-community>
    <config>
      <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
      <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
      </enable-transitive><!-- operation="delete"-->
    </config>
    </cost-community>
  </aigp>
</address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
transitive

```

Configure cost-community send-cost-community-id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <cost-community>
              <config>
                <point-of-insertion>pre-bestpath</point-of-insertion>
                <send-cost-community-id>0</send-cost-community-id>
              </config>
            </cost-community>
          </aigp>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
            <aigp>
              <cost-community>
                <config>
                  <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                  <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                  </enable-transitive><!-- operation="delete"-->
                </config>
              </cost-community>
            </aigp>
          </address-family>
        </address-families>
      </peer-group>
    </peer-groups>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
transitive
```

clear bgp peer-group WORD l2vpn evpn soft (out|in|)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
<ipi-bgp-peer-group_clear-peer-group-l2vpn-evpn-soft-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <peer-group-tag>WORD</peer-group-tag>
  <soft-reconfig>soft-only</soft-reconfig>
</ipi-bgp-peer-group_clear-peer-group-l2vpn-evpn-soft-all>
```

Command Syntax

```
clear bgp peer-group WORD l2vpn evpn soft (out|in|)
```

IPI-BGP-PEER

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enable-peer-bfd><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) fall-over bfd
```

Configure bgp as

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enable-peer-bfd><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
```

```

    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
    </enable-peer-bfd-multihop><!-- operation="delete"-->
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) fall-over bfd multihop
```

Configure peer address

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </enable-peer-bfd-multihop><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD fall-over bfd multihop
```

Configure interface name

Configure the interface name of a BGP neighbor.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <interface-name>WORD</interface-name> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) interface WORD
```

Configure mapped peer group tag

Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```



```

        <mapped-peer-group-tag>WORD</mapped-peer-group-tag> <!--
operation="delete"-->
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure peer mapped-peer-group-tag

Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <mapped-peer-group-tag>WORD</mapped-peer-group-tag> <!--
operation="delete"-->
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD peergroup WORD
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD tcp-mss <40-1440>
```

Configure peer port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

        <peer-port>0</peer-port> <!-- operation="delete"-->
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD port <0-65535>
```

Configure min route advertisement interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <min-route-advertisement-interval>0</min-route-advertisement-interval>
        <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertisement-interval <0-65535>
```

Configure peer as origin interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD as-origination-interval <1-65535>
```

Configure collide established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <collide-established><!-- operation="delete"-->

```

```

    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD collide-established
```

Configure peer description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <peer-description>LINE</peer-description> <!-- operation="delete"-->
          </peer>
        </peers>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD description LINE
```

Configure disallow infinite hold time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </disallow-infinite-hold-time><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD disallow-infinite-holdtime
```

Configure enforce multi hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enforce-multi-hop><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
neighbor WORD enforce-multihop
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </graceful-shut><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD g-shut
```

Configure graceful shutdown timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD g-shut-timer <10-65535>
```

Configure neighbor override capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <neighbor-override-capability><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```


Command Syntax

```
neighbor WORD override-capability
```

Configure neighbor passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </neighbor-passive><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD passive
```

Configure peer restart time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer shutdown

Disables a neighbor administratively. It will terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: empty

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
          <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
        </config>
        </peer-shutdown><!-- operation="delete"-->
      </peer>

```

```

    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD shutdown (description LINE|)
```

Configure neighbor strict capability match

Close the BGP connection if capability value does not match the remote peer.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </neighbor-strict-capability-match><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD strict-capability-match
```

Configure source identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD update-source WORD
```

Configure bgp version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
          <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
        </config>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD version (4)
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enable-ext-opt-param-len><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD extended-optional-param
```

Configure peer connect interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD timers connect <1-65535>
```

Configure peer as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

        <peer-as>-2</peer-as> <!-- operation="delete"-->
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remote-as internal
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-as>-1</peer-as> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remote-as external
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-as>1</peer-as>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-as>1</peer-as> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```



```

    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer graceful-shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </graceful-shut><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) g-shut
```

Configure peer graceful-shutdown-timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) g-shut-timer <10-65535>
```

Configure peer peer-restart-time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
```

```

        </config>
        <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) restart-time <1-3600>
```

Configure peer peer-description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
            <peer-description>LINE</peer-description> <!-- operation="delete"-->
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) description LINE
```

Configure peer peer-connect-interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) timers connect <1-65535>
```

Configure peer peer-as-origin-interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
```

```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) as-origination-interval <1-65535>
```

Configure peer min-route-advertisement-interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <min-route-advertisement-interval>0</min-route-advertisement-interval>
        <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertisement-interval <0-65535>
```

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enable-dynamic-capability><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability dynamic
```

Configure peer collide-established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```

        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
      </collide-established><!-- operation="delete"-->
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) collide-established
```

Configure peer source-identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) update-source WORD
```

Configure peer enforce-multi-hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enforce-multi-hop><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) enforce-multihop
```

Configure peer neighbor-override-capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
```



```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    </neighbor-override-capability><!-- operation="delete"-->
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) override-capability
```

Configure peer neighbor-strict-capability-match

Close the BGP connection if capability value does not match the remote peer.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </neighbor-strict-capability-match><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) strict-capability-match
```

Configure peer disallow-infinite-hold-time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </disallow-infinite-hold-time><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) disallow-infinite-holdtime
```

Configure peer neighbor-passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </neighbor-passive><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) passive
```

Configure peer shutdown description

Use this attribute to send shutdown communication message to inform peer the reason for the shutdown of the BGP session.

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Attribute Name: peer-shutdown

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
            </peer-shutdown><!-- operation="delete"-->
          </config>
          <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) shutdown (description LINE|)
```

Configure peer peer-port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <peer-port>0</peer-port> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) port <0-65535>
```

Configure peer bgp-version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

        <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) version (4)
```

Configure peer enable-ext-opt-param-len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          </enable-ext-opt-param-len><!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) extended-optional-param
```

Configure peer tcp-adjust-mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) tcp-mss <40-1440>
```

Configure hold time

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>

```

```

        </config>
      <timers>
        <config>
          <keep-alive>0</keep-alive>
          <hold-time>0</hold-time>
        </config>
      </timers>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <timers>
            <config>
              <hold-time>0</hold-time>
              <keep-alive>0</keep-alive>
            </config>
          </timers>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <ebgp-multihop>
            <config>
              </enabled>
            </config>
          </ebgp-multihop>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <ebgp-multihop>
            <config>
              <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
              </enabled><!-- operation="delete"-->
            </config>
          </ebgp-multihop>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) ebgp-multihop <1-255>
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <ebgp-multihop>
        <config>
            </enabled>
        </config>
    </ebgp-multihop>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <ebgp-multihop>
          <config>
            <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
            </enabled><!-- operation="delete"-->
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </config>
    </ebgp-multihop>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <local-as>
            <local-as-list> <!-- operation="delete"-->
              <peer-local-as>1</peer-local-as>
            <config>
              <peer-local-as>1</peer-local-as>
            </config>
            </local-as-list>
          </local-as>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) local-as <1-4294967295>
```

Configure local-as peer-local-as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <local-as>
            <local-as-list> <!-- operation="delete"-->
              <peer-local-as>1</peer-local-as>
            <config>
              <peer-local-as>1</peer-local-as>
            </config>
            </local-as-list>
          </local-as>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <local-as>
            <local-as-list>
              <peer-local-as>1</peer-local-as>
              <config>
                <peer-local-as>1</peer-local-as>
                </no-prepend-local-as>
                </replace-local-as>
              </config>
            </local-as-list>
          </local-as>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure replace local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <local-as>
          <local-as-list>
            <peer-local-as>1</peer-local-as>
            <config>
              <peer-local-as>1</peer-local-as>
              </no-prepend-local-as>
              </replace-local-as>
            </config>
          </local-as-list>
        </local-as>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>

```

```

    <peer-address>A.B.C.D|X:X::X:X</peer-address>
  </config>
  <peer-address>BGP_IP_ADDR_T</peer-address>
</config>
<bgp-passwords>
  <bgp-password>
    <password>WORD</password>
    <config>
      <password>WORD</password>
    </config>
    <auth-key-encrypt>1</auth-key-encrypt>
  </bgp-password>
</bgp-passwords>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <bgp-passwords>
            <bgp-password>
              <password>WORD</password>
              <config>
                <password>WORD</password>
              </config>
              <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
          </bgp-passwords>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </bgp-password>
    </bgp-passwords>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) authentication-key WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <bgp-passwords>
            <bgp-password>
              <password>WORD</password>
              <config>
                <password>WORD</password>
              </config>
              <auth-key-encrypt>1</auth-key-encrypt>
            </bgp-password>
          </bgp-passwords>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD authentication-key (0|1) WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <bgp-passwords>
            <bgp-password>
              <password>WORD</password>
              <config>
                <password>WORD</password>
              </config>
              <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
          </bgp-passwords>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD authentication-key WORD
```

Configure additional paths mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure afi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>

```

```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure safi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>

```

```

        </config>
        <afi>ipv4</afi>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure additional path select all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </additional-path-select-all><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <additional-path-select-all><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </additional-path-select-all><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure additional paths best select count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>

```

```

    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>

```



```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </activate><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>

```

```

    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </activate><!-- operation="delete"-->
        </address-family>
    </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>

```

```

        <safi>unicast</safi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
</config>
    <afi>ipv4</afi>
    </activate><!-- operation="delete"-->
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
      </address-family>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </activate><!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>

```

```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </activate><!-- operation="delete"-->
    </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure de activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                <afi>ipv4</afi>
            </address-family>
            </address-families>
        </peer>
        </peers>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        </de-activate><!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>

```

```

    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </de-activate><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </de-activate><!-- operation="delete"-->
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```



```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </de-activate><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </de-activate><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>

```

```

    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      </de-activate><!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>

```

```

        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </default-peer-route-map-name><!-- operation="delete"-->
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </default-peer-route-map-name><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </default-peer-route-map-name><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate route-map WORD
```

Configure address-family peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <weight>0</weight> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <weight>0</weight> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <weight>0</weight> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure route server client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>

```

```

    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
        </route-server-client><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
            <config>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </route-server-client><!-- operation="delete"-->
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </route-server-client><!-- operation="delete"-->
      </address-family>
    </address-families>
    </peer>
  </peers>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD route-server-client
```

Configure next hop self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </next-hop-self><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```



```

<config>
  <bgp-as>1</bgp-as>
</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </next-hop-self><!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>

```

```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </next-hop-self><!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>

```

```

        <afi>ipv4</afi>
        </flowspec-validation-disable><!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </flowspec-validation-disable><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </flowspec-validation-disable><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local

router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>

```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </peer-route-reflector><!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>

```

```

    <peer-address>A.B.C.D|X:X::X:X</peer-address>
  </config>
  <peer-address>BGP_IP_ADDR_T</peer-address>
</config>
<address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </peer-route-reflector><!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```



```

    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      </peer-route-reflector><!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
  <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
    </address-family>
  </address-families>
</bgp>

```

```

        </config>
        <afi>ipv4</afi>
        </peer-route-reflector><!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-route-reflector><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </peer-route-reflector><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers

only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </peer-remove-private-as><!-- operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>

```

```

        <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            </peer-remove-private-as><!-- operation="delete"-->
        </address-family>
    </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>

```



```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </no-send-community><!-- operation="delete"-->
    </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>

```

```

        </config>
        <afi>ipv4</afi>
        </no-send-community><!-- operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </no-send-community><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>

```

```

    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>

```

```

        <safi>unicast</safi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
</config>
    <afi>ipv4</afi>
    <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```


Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```

        <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
- operation="delete"-->
        </address-family>
    </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
      </peer>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>

```

```

- operation="delete"-->
    <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
    </address-family>
    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer>
        </peers>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
                <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
              </address-family>
            </address-families>
          </peer>
        </peers>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```



```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <peers>

```

```

    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          </peer-allow-ebgp-vpn><!-- operation="delete"-->
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<peers>
<peer>
  <peer-address>A.B.C.D|X:X::X:X</peer-address>
  <config>
    <peer-address>BGP_IP_ADDR_T</peer-address>
  </config>
  <address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```



```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      </capability-graceful-restart><!-- operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>

```

```

    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  </address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </capability-graceful-restart><!-- operation="delete"-->
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
            <config>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    </capability-graceful-restart><!-- operation="delete"-->
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
        </capability-graceful-restart><!-- operation="delete"-->
      </address-family>
    </address-families>
  </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure extended nexthop encode

A BGP speaker that wishes to advertise an IPv6 next hop for IPv4 NLRI for VPN-IPv4 NLRI to a BGP peer as per this specification MUST use the Capability Advertisement procedures defined with the Extended Next Hop Encoding capability to determine whether its peer supports this for the NLRI AFI/SAFI pair(s) of interest.

Attribute Name: extended-nexthop-encode

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
              </extended-nexthop-encode><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability extended-nexthop-encode
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
                <afi>ipv4</afi>
              </capability-graceful-restart><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </capability-graceful-restart><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              </capability-graceful-restart><!-- operation="delete"-->
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure mapped peer group tag af

BGP peer group name. Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag-af

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <mapped-peer-group-tag-af>WORD</mapped-peer-group-tag-af> <!--
operation="delete"-->
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>

```



```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
    <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
        <afi>ipv4</afi>
        <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
        </address-family>
        </address-families>
        </peer>
        </peers>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        </config>
        <afi>ipv4</afi>
        <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
        </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD unsuppress-map WORD
```

Configure prefix count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
            <maximum-prefixes>
              <maximum-prefix> <!-- operation="delete"-->
                <prefix-count>1</prefix-count>
              </maximum-prefix>
            </maximum-prefixes>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                <config>
                  <prefix-count>1</prefix-count>
                </config>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                <config>
                  <prefix-count>1</prefix-count>
                </config>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </stop-update>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </stop-update>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </stop-update>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```


Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </stop-update>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </maximum-prefix-warning>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </maximum-prefix-warning>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                </maximum-prefix-warning>
              </maximum-prefix>
            </maximum-prefixes>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                    <prefix-count>1</prefix-count>
                  </config>
                  <threshold-percentage>1</threshold-percentage>
                </maximum-prefix>
              </maximum-prefixes>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>
        <config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
      </address-family>
      <maximum-prefixes>
      <maximum-prefix>
        <prefix-count>1</prefix-count>
        <config>
          <prefix-count>1</prefix-count>
        </config>
        <threshold-percentage>1</threshold-percentage>
      </maximum-prefix>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

        </maximum-prefixes>
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <maximum-prefixes>
            <maximum-prefix>
              <prefix-count>1</prefix-count>
            </maximum-prefix>
          </maximum-prefixes>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <prefix-count>1</prefix-count>
    </config>
    <threshold-percentage>1</threshold-percentage>
</maximum-prefix>
</maximum-prefixes>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```



```

    <maximum-prefixes>
    <maximum-prefix>
      <prefix-count>1</prefix-count>
      <config>
        <prefix-count>1</prefix-count>
        <threshold-percentage>1</threshold-percentage>
      </config>
    </warning-only>
  </maximum-prefix>
</maximum-prefixes>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <address-families>
      <address-family>
        <safi>unicast</safi>

```

```

    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
  <maximum-prefixes>
    <maximum-prefix>
      <prefix-count>1</prefix-count>
      <config>
        <prefix-count>1</prefix-count>
        <threshold-percentage>1</threshold-percentage>
      </config>
      </warning-only>
    </maximum-prefix>
  </maximum-prefixes>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    </maximum-prefixes>
    <maximum-prefix>
        <prefix-count>1</prefix-count>
        <config>
            <prefix-count>1</prefix-count>
            <threshold-percentage>1</threshold-percentage>
        </config>
        </warning-only>
    </maximum-prefix>
    </maximum-prefixes>
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>

```

```

        <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    <distributed-list-filters>
    <distributed-list-filter>
        <filter-direction>in</filter-direction>
        <config>
            <filter-direction>in</filter-direction>
        </config>
        <access-list-identifier>WORD</access-list-identifier>
    </distributed-list-filter>
    </distributed-list-filters>
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) distribute-list WORD (in|out)
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  </peer>
</bgp>

```

```

    </config>
    <address-families>
    <address-family>
        <safi>unicast</safi>
        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    <distributed-list-filters>
    <distributed-list-filter>
        <filter-direction>in</filter-direction>
        <config>
            <filter-direction>in</filter-direction>
        </config>
        <access-list-identifier>WORD</access-list-identifier>
    </distributed-list-filter>
    </distributed-list-filters>
    </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) distribute-list WORD (in|out)
```

Configure distribute-list-filter access-list-identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
    <peers>
    <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
    </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    <distributed-list-filters>
    <distributed-list-filter>
      <filter-direction>in</filter-direction>
      <config>
        <filter-direction>in</filter-direction>
      </config>
      <access-list-identifier>WORD</access-list-identifier>
    </distributed-list-filter>
  </distributed-list-filters>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
    </peer>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) filter-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  </peer>
</bgp>

```

```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) filter-list WORD (in|out)
```

Configure as-list-filter as-access-list-identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
  </peer>
</bgp>

```



```

    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
    <as-list-filters>
    <as-list-filter>
      <as-list-direction>in</as-list-direction>
      <config>
        <as-list-direction>in</as-list-direction>
      </config>
      <as-access-list-identifier>WORD</as-access-list-identifier>
    </as-list-filter>
  </as-list-filters>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure prefix list name

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    <peers>
    <peer>

```

```

    <peer-address>A.B.C.D|X:X::X:X</peer-address>
  </config>
  <peer-address>BGP_IP_ADDR_T</peer-address>
</config>
<address-families>
  <address-family>
    <safi>unicast</safi>
    <config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <afi>ipv4</afi>
    <prefix-list-filters>
      <prefix-list-filter>
        <prefix-filter-direction>in</prefix-filter-direction>
        <config>
          <prefix-filter-direction>in</prefix-filter-direction>
        </config>
        <prefix-list-name>WORD</prefix-list-name>
      </prefix-list-filter>
    </prefix-list-filters>
  </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure prefix filter direction

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <prefix-list-filters>
      <prefix-list-filter>
        <prefix-filter-direction>in</prefix-filter-direction>
        <config>
          <prefix-filter-direction>in</prefix-filter-direction>
        </config>
        <prefix-list-name>WORD</prefix-list-name>
      </prefix-list-filter>
      </prefix-list-filters>
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure prefix-list-filter prefix-list-name

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
          <address-family>
            <safi>unicast</safi>
            <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
            </config>
            <afi>ipv4</afi>
            <prefix-list-filters>
              <prefix-list-filter>
                <prefix-filter-direction>in</prefix-filter-direction>
                <config>
                  <prefix-filter-direction>in</prefix-filter-direction>
                </config>
                <prefix-list-name>WORD</prefix-list-name>
              </prefix-list-filter>
            </prefix-list-filters>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure prefix-list-filter prefix-list-name

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denials are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <prefix-list-filters>
                <prefix-list-filter>
                  <prefix-filter-direction>in</prefix-filter-direction>
                  <config>
                    <prefix-filter-direction>in</prefix-filter-direction>
                  </config>
                  <prefix-list-name>WORD</prefix-list-name>
                </prefix-list-filter>
              </prefix-list-filters>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <route-map-filters>
                <route-map-filter>
                  <route-map-direction>in</route-map-direction>
                  <config>
                    <route-map-direction>in</route-map-direction>
                  </config>
                  <route-map-name>WORD</route-map-name>
                </route-map-filter>
              </route-map-filters>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
            <route-map-filters>
              <route-map-filter>
                <route-map-direction>in</route-map-direction>
                <config>
                  <route-map-direction>in</route-map-direction>
                </config>
                <route-map-name>WORD</route-map-name>
              </route-map-filter>
            </route-map-filters>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <route-map-filters>
                <route-map-filter>
                  <route-map-direction>in</route-map-direction>
                  <config>
                    <route-map-direction>in</route-map-direction>
                  </config>
                  <route-map-name>WORD</route-map-name>
                </route-map-filter>
              </route-map-filters>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```


Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <route-map-filters>
                <route-map-filter>
                  <route-map-direction>in</route-map-direction>
                  <config>
                    <route-map-direction>in</route-map-direction>
                  </config>
                  <route-map-name>WORD</route-map-name>
                </route-map-filter>
              </route-map-filters>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
              <route-map-filters>
                <route-map-filter>
                  <route-map-direction>in</route-map-direction>
                  <config>
                    <route-map-direction>in</route-map-direction>
                  </config>
                  <route-map-name>WORD</route-map-name>
                </route-map-filter>
              </route-map-filters>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <route-map-filters>
            <route-map-filter>
              <route-map-direction>in</route-map-direction>
              <config>
                <route-map-direction>in</route-map-direction>
              </config>
              <route-map-name>WORD</route-map-name>
            </route-map-filter>
          </route-map-filters>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure admin status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <config>
              <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>

```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <config>
              <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
          </aigp>
        </address-family>
      </peer>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <config>
              <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp send med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <config>
              </aigp-send-med><!-- operation="delete"-->
            </config>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <config>
              </aigp-send-med><!-- operation="delete"-->
            </config>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```



```

    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
        <peer-address>A.B.C.D|X:X::X:X</peer-address>
        <config>
          <peer-address>BGP_IP_ADDR_T</peer-address>
        </config>
        <address-families>
        <address-family>
          <safi>unicast</safi>
          <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <afi>ipv4</afi>
          <aigp>
          <config>
            </aigp-send-med><!-- operation="delete"-->
          </config>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure send cost community id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
  <peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <config>
      <peer-address>BGP_IP_ADDR_T</peer-address>
    </config>
    <address-families>
    <address-family>
      <safi>unicast</safi>
      <config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <afi>ipv4</afi>
      <aigp>
      <cost-community>
      <config>
        <point-of-insertion>pre-bestpath</point-of-insertion>
        <send-cost-community-id>0</send-cost-community-id>
      </config>
      </cost-community>
    </aigp>
    </address-family>
  </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
cost)
```

Configure enable transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
            <aigp>
              <cost-community>
                <config>
                  <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                  <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                  </enable-transitive><!-- operation="delete"-->
                </config>
              </cost-community>
            </aigp>
          </address-family>
        </address-families>
      </peer>
    </peers>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
cost) transitive
```

Configure point of insertion

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <cost-community>
              <config>
                <point-of-insertion>pre-bestpath</point-of-insertion>
                <send-cost-community-id>0</send-cost-community-id>
              </config>
            </cost-community>
          </aigp>
        </address-family>
      </address-families>
    </peer>
  </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <cost-community>
              <config>
                <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                </enable-transitive><!-- operation="delete"-->
              </config>
            </cost-community>
          </aigp>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

        </cost-community>
    </aigp>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
cost) transitive

```

Configure cost-community send-cost-community-id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
              <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
              </config>
              <afi>ipv4</afi>
            </address-family>
          </address-families>
          <aigp>
            <cost-community>

```

```

        <config>
            <point-of-insertion>pre-bestpath</point-of-insertion>
            <send-cost-community-id>0</send-cost-community-id>
        </config>
    </cost-community>
</aigp>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <address-families>
            <address-family>
              <safi>unicast</safi>
            </address-family>
          </address-families>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <afi>ipv4</afi>
    <aigp>
        <cost-community>
            <config>
                <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                </enable-transitive><!-- operation="delete"-->
            </config>
        </cost-community>
    </aigp>
</address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
cost) transitive
```

clear ip bgp * (description LINE|)

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```

<ipi-bgp-peer_clear-ip-bgp-all-peer xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-bgp">
    <peer-reset-description>l</peer-reset-description>
</ipi-bgp-peer_clear-ip-bgp-all-peer>

```

Command Syntax

```
clear ip bgp * (description LINE|)
```

clear bgp * l2vpn evpn soft (out|in|)

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
<ipi-bgp-peer_clear-bgp-l2vpn-evpn-soft-all xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bgp">
  <soft-reconfig>soft-only</soft-reconfig>
</ipi-bgp-peer_clear-bgp-l2vpn-evpn-soft-all>
```

Command Syntax

```
clear bgp * l2vpn evpn soft (out|in|)
```

clear bgp <1-4294967295> l2vpn evpn soft (out|in|)

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
<ipi-bgp-peer_clear-bgp-remote-as-l2vpn-evpn-soft-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <peer-as>1</peer-as>
  <soft-reconfig>soft-only</soft-reconfig>
</ipi-bgp-peer_clear-bgp-remote-as-l2vpn-evpn-soft-all>
```

Command Syntax

```
clear bgp <1-4294967295> l2vpn evpn soft (out|in|)
```

clear bgp (A.B.C.D|X:X::X:X|WORD) l2vpn evpn soft (out|in|)

Attribute Name: peer-address

Attribute Type: union

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
<ipi-bgp-peer_clear-bgp-peer-address-l2vpn-evpn-soft xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <peer-address>BGP_IP_ADDR_T</peer-address>
  <soft-reconfig>soft-only</soft-reconfig>
</ipi-bgp-peer_clear-bgp-peer-address-l2vpn-evpn-soft>
```

Command Syntax

```
clear bgp (A.B.C.D|X:X::X:X|WORD) l2vpn evpn soft (out|in|)
```

IPI-BGP-ADDRESS-FAMILY-VRF

Configure enable auto summary

Use this attribute to enable sending summarized routes by a BGP speaker to its peers. Auto-summary is used by a BGP router to advertise summarized routes to its peers. Auto-summary can be enabled if certain routes have already been advertised: in this case, configuring auto-summary advertises the summarized routes first, then corresponding non-summarized routes are withdrawn. If certain routes have already been advertised, and auto-summary is disabled, non-summarized routes are first advertised, then the corresponding summarized routes are withdrawn from all the connected peers.

Attribute Name: enable-auto-summary

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </enable-auto-summary><!-- operation="delete"-->
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
auto-summary
```

Configure enable network igp sync

Use this attribute to enable IGP synchronization for BGP static network routes

Attribute Name: enable-network-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
        </enable-network-igp-sync><!-- operation="delete"-->
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
network synchronization
```

Configure enable igp sync

Use this attribute to enable IGP synchronization of Internal BGP (iBGP) learned routes with the Internal Gateway Protocol (IGP) system. Synchronization is used when a BGP router should not advertise routes learned from iBGP neighbors, unless those routes are also present in an IGP (for example, OSPF). Synchronization may be enabled when all the routers in an autonomous system do not speak BGP, and the autonomous system is a transit for other autonomous systems.

Attribute Name: enable-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>

```

```

    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    </enable-igp-sync><!-- operation="delete"-->
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

synchronization

Configure multipath relax

This attribute to specifies a BGP as-path relax configuration.

Attribute Name: multipath-relax

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </multipath-relax><!-- operation="delete"-->
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
bgp bestpath as-path multipath-relax
```

Configure graceful shutdown

Gracefully shut down all sessions of the AFI/SAFI belonging to the vrf under this router. The BGP graceful shutdown feature reduces packet loss during maintenance activity.

Attribute Name: graceful-shutdown

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          </graceful-shutdown><!-- operation="delete"-->
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut
```

Configure graceful shutdown capable

This attribute to enable the graceful shutdown capability

Attribute Name: graceful-shutdown-capable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
```

```

    <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    </graceful-shutdown-capable><!-- operation="delete"-->
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp g-shut-capable
```

Configure graceful shutdown local preference

This attribute sets the local preference of the router to use during graceful shutdown. The local preference value indicates the preferred path when there are multiple paths to the same destination in a single routing database. The path with a higher preference value is the preferred one. The preferred path is sent to all routers and access servers in the local autonomous system.

Attribute Name: graceful-shutdown-local-preference

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>

```

```

        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <graceful-shutdown-local-preference>0</graceful-shutdown-local-
preference> <!-- operation="delete"-->
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp g-shut-local-preference <0-4294967295>
```

Configure additional path select all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </additional-path-select-all><!-- operation="delete"-->
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
bgp additional-paths select all
```

Configure additional paths mode

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure enable pic

Use this attribute to enable the additional paths in the BGP table,install the indirect nexthop in RIB

Attribute Name: enable-pic

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
```



```

</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
  </enable-pic><!-- operation="delete"-->
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths install
```

Configure additional paths best select count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
        <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp additional-paths select best <2-3>
```

Configure local

Use this attribute to specify distance value for local routes

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <distances>
            <distance> <!-- operation="delete"-->
              <local>1</local>
              <config>
                <local>1</local>
                <ibgp>1</ibgp>
                <ebgp>1</ebgp>
              </config>
                <ibgp>1</ibgp>
                <ebgp>1</ebgp>
              </distance>
            </distances>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

```
</bgp>
```

Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure aggregate address

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route. The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <aggregate-address-lists>
          <aggregate-address-list> <!-- operation="delete"-->
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
          </aggregate-address-list>
        </aggregate-address-lists>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M
```

Configure bgp as

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route. The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <aggregate-address-lists>
            <aggregate-address-list> <!-- operation="delete"-->
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
            </aggregate-address-list>
          </aggregate-address-lists>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address (X:X::X:X/M)
```

Configure aggregate type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <aggregate-address-lists>
            <aggregate-address-list>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
                <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
              </aggregate-address-list>
            </aggregate-address-lists>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M as-set
```

Configure afi

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <aggregate-address-lists>
  <aggregate-address-list>
    <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    <config>
      <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    </config>
    <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
  </aggregate-address-list>
</aggregate-address-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address (X:X::X:X/M) as-set
```

Configure safi

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
<aggregate-address-lists>
<aggregate-address-list>
  <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
  <config>
    <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
  </config>
  <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
</aggregate-address-list>
</aggregate-address-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address A.B.C.D/M summary-only
```

Configure vrf name

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <aggregate-address-lists>
    <aggregate-address-list>
        <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
        <config>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
        </config>
        <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
    </aggregate-address-list>
</aggregate-address-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address (X:X::X:X/M) summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </address-family-vrf>
        </address-family-vrfs>
    </bgp-instance>
</bgp-instances>
</bgp>

```



```

    <aggregate-address-lists>
    <aggregate-address-list>
      <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    <config>
      <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    </config>
      <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
    </aggregate-address-list>
  </aggregate-address-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address A.B.C.D/M as-set summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <aggregate-address-lists>
    <aggregate-address-list>
      <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    <config>
      <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
    </config>
  </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

        </config>
        <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
    </aggregate-address-list>
</aggregate-address-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address (X:X::X:X/M) as-set summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <aggregate-address-lists>
            <aggregate-address-list>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
              <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
            </aggregate-address-list>
          </aggregate-address-lists>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address A.B.C.D/M summary-only as-set
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <aggregate-address-lists>
            <aggregate-address-list>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
              <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
            </aggregate-address-list>
          </aggregate-address-lists>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
aggregate-address (X:X::X:X/M) summary-only as-set
```

Configure ebgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <maximum-paths>
            <config>
              <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
            </config>
          </maximum-paths>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure maximum-paths ebgp-max-path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <maximum-paths>
            <config>
              <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
            </config>
          </maximum-paths>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure ibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for iBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path.

Attribute Name: ibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
  <maximum-paths>
    <config>
      <ibgp-max-path>2</ibgp-max-path> <!-- operation="delete"-->
    </config>
  </maximum-paths>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
max-paths ibgp <2-64>
```

Configure map name

Use this attribute to enable or disable suppression/modification of incoming BGP updates to IP RIB/FIB table installation. In a dedicated route reflector, all the routes it receives may not be required to be stored or only few selected routes need to be stored, because it may not lie in the data path. Table maps are particularly useful to attain this restriction. When map-name attribute is set, the route map referenced in the map-name attribute shall be used to set certain properties (such as the traffic index) of the routes for installation into the RIB. The route is always downloaded, regardless of whether it is permitted or denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <table-map>
      <config>
        <map-name>WORD</map-name>
      </config>
    </table-map>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
table-map WORD
```

Configure table map filter

When tableMapFilter attribute is given in the table map attribute, the route map referenced is used to control whether a BGP route is to be downloaded to the IP RIB (hence the filter). A BGP route is not downloaded to the RIB if it is denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: table-map-filter

Attribute Type: boolean

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>

```

```

        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <table-map>
    <config>
        <map-name>WORD</map-name> <!-- operation="delete"-->
        <table-map-filter>true</table-map-filter> <!-- operation="delete"-->
    </config>
    </table-map>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
table-map WORD filter
```

Configure enable dampening

Use this attribute to enable route flap dampening

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
      <route-flap-dampenings>
        <route-flap-dampening> <!-- operation="delete"-->
          <enable-dampening>enable-dampening</enable-dampening>
        </route-flap-dampening>
      </route-flap-dampenings>
    </bgp-instance>
  </bgp-instances>
</bgp>

```



```

        <enable-dampening>enable-dampening</enable-dampening>
    </config>
</route-flap-dampening>
</route-flap-dampenings>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening
```

Configure reach half life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <route-flap-dampenings>
            <route-flap-dampening>
              <enable-dampening>enable-dampening</enable-dampening>
              <config>
                <enable-dampening>enable-dampening</enable-dampening>
              </config>
                <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
          </route-flap-dampenings>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </route-flap-dampenings>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45>
```

Configure max suppress time

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <route-flap-dampenings>
    <route-flap-dampening>
      <enable-dampening>enable-dampening</enable-dampening>
      <config>
        <enable-dampening>enable-dampening</enable-dampening>
        <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
        <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
        <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
      </config>
      <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
    </route-flap-dampening>
  </route-flap-dampenings>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreachable half life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreachable-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <route-flap-dampenings>
  <route-flap-dampening>
    <enable-dampening>enable-dampening</enable-dampening>
    <config>
      <enable-dampening>enable-dampening</enable-dampening>
      <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
      <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
      <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
      <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
    </config>
    <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
  </route-flap-dampening>
</route-flap-dampenings>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure dampening rmap name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>

```

```

<config>
  <bgp-as>1</bgp-as>
</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
  <route-flap-dampenings>
  <route-flap-dampening>
    <enable-dampening>enable-dampening</enable-dampening>
    <config>
      <enable-dampening>enable-dampening</enable-dampening>
    </config>
    <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
  </route-flap-dampening>
  </route-flap-dampenings>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp dampening route-map WORD
```

Configure protocol type

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: protocol-type

Attribute Type: enum (connected|static|rip|ospf|isis|connected-host-routes)

Attribute Name: redist-route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <route-redistribute-lists>
  <route-redistribute-list> <!-- operation="delete"-->
    <protocol-type>connected</protocol-type>
    <config>
      <protocol-type>connected</protocol-type>
      <redist-route-map-name>WORD</redist-route-map-name>
    </config>
  </route-redistribute-list>
</route-redistribute-lists>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

redistribute (connected|static|rip|ospf|isis|connected-host-routes) (route-map
WORD|)

```

Configure bgpSRv6enable

This attribute enable Segment Routing V6

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
segment-routing srv6
```

Configure sid alloc type

sid-alloc

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: sid-alloc-type

Attribute Type: enum (per-vrf)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

```

    <bgp-srv6>
    <sid-alloc-mode>
    <config>
        <sid-alloc-type>per-vrf</sid-alloc-type> <!-- operation="delete"-->
    </config>
</sid-alloc-mode>
</bgp-srv6>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
sid-alloc (per-vrf)
```

Configure ospf instance number

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: ospf-instance-number

Attribute Type: union

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <bgp-redistribute-ospfs>
    <bgp-redistribute-ospf> <!-- operation="delete"-->
      <ospf-instance-number>""</ospf-instance-number>
    <config>
      <ospf-instance-number>""</ospf-instance-number>
    </config>
  </bgp-instance>
</bgp-instances>
</bgp>

```



```

        </config>
    </bgp-redistribute-ospf>
</bgp-redistribute-ospfs>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
redistribute (ospf) (WORD|<1-65535>)
```

Configure redistribute ospf route map

Use this attribute to specify route map to redistribute routes from OSPF into BGP.

Attribute Name: redistribute-ospf-route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <bgp-redistribute-ospfs>
          <bgp-redistribute-ospf>
            <ospf-instance-number>""</ospf-instance-number>
            <config>
              <ospf-instance-number>""</ospf-instance-number>
            </config>
            <redistribute-ospf-route-map>WORD</redistribute-ospf-route-map> <!--
- operation="delete"-->
          </bgp-redistribute-ospf>
        </bgp-redistribute-ospfs>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
redistribute (ospf) route-map WORD
```

Configure peer as

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-as>1</peer-as>
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer address

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-as>1</peer-as> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor remote-as <1-4294967295>
```

Configure source identifier

This attribute allows internal BGP sessions to use any operational interface for TCP connections. Use this attribute in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <source-identifier>WORD</source-identifier> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor update-source WORD
```

Configure bgp version

BGP Version. This attribute configures router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Using this attribute disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor version (4)
```

Configure peer connection interval

Connect timer value. This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the

period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connection-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-connection-interval>1</peer-connection-interval> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor timers connect <1-65535>
```

Configure enforce multihop

This attribute turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </enforce-multihop><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor enforce-multihop
```

Configure peer shutdown

This attribute disables a neighbor administratively. Use this attribute to terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: uint8

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
              </config>
                </peer-shutdown><!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor shutdown (description LINE|)
```

Configure neighbor passive

Use this attribute to set a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>

```



```

<config>
  <bgp-as>1</bgp-as>
</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
<vrf-peers>
<vrf-peer>
  <peer-address>CML_IP_ADDR_T</peer-address>
  <config>
    <peer-address>CML_IP_ADDR_T</peer-address>
  </config>
  </neighbor-passive><!-- operation="delete"-->
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

neighbor passive

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>

```

```

    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </enable-dynamic-capability><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor capability dynamic
```

Configure min route advertisement interval

Minimum route advertisement interval. Sets minimum interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds. BGP dampening can also be used to control the effects of flapping routes.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>

```

```

    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <min-route-advertisement-interval>0</min-route-advertisement-
interval> <!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor advertisement-interval <0-65535>
```

Configure peer as origin interval

Time interval. This attribute adjust the interval of sending AS origination routing updates. This attribute is used to change the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>

```

```

    <vrf-peer>
      <peer-address>CML_IP_ADDR_T</peer-address>
      <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
      </config>
      <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor as-origination-interval <1-65535>
```

Configure neighbor as override

Use this attribute to configure a PE router to override the Autonomous System Number (ASN) of a site with the ASN of a provider. BGP normally ignores the routes from the same AS. However, this attribute is used to override the customers ASN in BGP, so that the customer CE accepts and installs routes from the same AS. Typically, this attribute is used when Customer Edge (CE) routers have the same ASN in some or all sites. As per BGP requirement, a BGP speaker rejects a route that has the same ASN as itself, in the AS_PATH attribute. Thus the CE routers having the same ASN do not accept routes from each other. Set neighborAsOverrideAf attribute on the PE router removes the CE neighbors ASN from the AS_PATH attribute allowing CE routers with the same ASN to accept routes from each other.

Attribute Name: neighbor-as-override

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>

```

```

        <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </neighbor-as-override><!-- operation="delete"-->
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor as-override
```

Configure peer interface name

Interface name. Configures IP address or IPv6 address on interface

Attribute Name: peer-interface-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <peer-interface-name>WORD</peer-interface-name> <!--
operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </vrf-peers>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) interface WORD
```

Configure peer description

Use this attribute to associate a description with a neighbor. This attribute helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-description>LINE</peer-description> <!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
neighbor description LINE
```

Configure peer restart time

This attribute sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the graceful-restart-set attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor restart-time <1-3600>
```

Configure site origin identifier

Use this attribute to enable the site-of-origin (SOO) feature. If the customer AS is multi-homed to the ISP, this attribute ensures that the PE does not advertise the routes back to the same AS.

Attribute Name: site-origin-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <site-origin-identifier>AS:nn_or_IP:nn</site-origin-identifier> <!--
- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor soo AS:nn_or_IP:nn
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to

flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                </graceful-shut><!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor g-shut
```

Configure graceful shut timer

Use this attribute to configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shut-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      <vrf-peers>
      <vrf-peer>
        <peer-address>CML_IP_ADDR_T</peer-address>
        <config>
          <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
        <graceful-shut-timer>10</graceful-shut-timer> <!--
operation="delete"-->
      </vrf-peer>
    </vrf-peers>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor g-shut-timer <10-65535>
```

Configure bgp port

The BGP port number of a neighbor

Attribute Name: bgp-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <bgp-port>0</bgp-port> <!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor port <0-65535>
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>

```

```

    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </enable-ext-opt-param-len><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

neighbor extended-optional-param

Configure vrf-peer additional-paths-mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>

```

```

        <afi>ipv4</afi>
    <vrf-peers>
    <vrf-peer>
        <peer-address>CML_IP_ADDR_T</peer-address>
        <config>
            <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor additional-paths (send-receive|receive|send|disable)
```

Configure vrf-peer additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </vrf-peers>
        <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
        </vrf-peer>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        </config>
        </additional-path-select-all><!-- operation="delete"-->
    </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor advertise additional-paths all
```

Configure vrf-peer additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </vrf-peers>
    <vrf-peer>
      <peer-address>CML_IP_ADDR_T</peer-address>
      <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
      </config>
      <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>

```

```

</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor advertise additional-paths best <2-3>
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor tcp-mss <40-1440>
```

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </enable-peer-bfd><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
            </enable-peer-bfd-multihop><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor fall-over bfd multihop
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </activate><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor activate
```

Configure vrf-peer activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>

```

```

<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor activate
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer. By default, the flowspec validation is enabled, unless this option is specified.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>

```

```

    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </flowspec-validation-disable><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor flowspec-validation-disable
```

Configure vrf-peer activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <vrf-peers>
        <vrf-peer>
          <peer-address>CML_IP_ADDR_T</peer-address>

```

```

        <config>
          <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
      </activate><!-- operation="delete"-->
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor activate
```

Configure de activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </de-activate><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor de-activate
```

Configure vrf-peer de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                </de-activate><!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor de-activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
      <vrf-peers>
        <vrf-peer>
          <peer-address>CML_IP_ADDR_T</peer-address>
          <config>
            <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
          </vrf-peer>
        </vrf-peers>
      </vrf-peer>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <weight>0</weight> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor weight <0-65535>
```

Configure vrf-peer weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <weight>0</weight> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor weight <0-65535>
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </peer-route-reflector><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor route-reflector-client
```

Configure vrf-peer peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </peer-route-reflector><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>

```

```

</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </vrf-peer-remove-private-as><!-- operation="delete"-->
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>

```

```

        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
</vrf-peers>
<vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    </no-send-community><!-- operation="delete"-->
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </vrf-peers>

```

```

    <vrf-peer>
      <peer-address>CML_IP_ADDR_T</peer-address>
      <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
      </config>
      <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
- operation="delete"-->

```

```

        </vrf-peer>
    </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor attribute-unchanged
```

Configure vrf-peer neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>

```



```
</bgp>
```

Command Syntax

```
neighbor attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </peer-allow-ebgp-vpn><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              </capability-graceful-restart><!-- operation="delete"-->
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor capability graceful-restart
```

Configure mapped peer group tag af

BGP peer group name. Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag-af

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <mapped-peer-group-tag-af>WORD</mapped-peer-group-tag-af> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
              </vrf-peer>
            </vrf-peers>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor unsuppress-map WORD
```

Configure hold time

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </address-family-vrf>
      <vrf-peers>
      <vrf-peer>
        <peer-address>CML_IP_ADDR_T</peer-address>
        <config>
          <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
        <timers>
        <config>
          <keep-alive>0</keep-alive>
          <hold-time>0</hold-time>
        </config>
      </timers>
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <ebgp-multihop>
                <config>
                  </enabled>
                </config>
              </ebgp-multihop>
            </vrf-peer>
          </vrf-peers>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      <vrf-peers>
      <vrf-peer>
        <peer-address>CML_IP_ADDR_T</peer-address>
        <config>
          <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
        <ebgp-multihop>
        <config>
          <maximum-hop-count>1</maximum-hop-count> <!--
operation="delete"-->
          </enabled><!-- operation="delete"-->
        </config>
      </ebgp-multihop>
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor ebgp-multihop <1-255>
```

Configure prefix count

This attribute specifies number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                <config>
                  <prefix-count>1</prefix-count>
                </config>
              </maximum-prefix>
            </maximum-prefixes>
          </vrf-peer>
        </vrf-peers>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <vrf-peers>
            <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <maximum-prefixes>
                <maximum-prefix>
                  <prefix-count>1</prefix-count>
                <config>
                  <prefix-count>1</prefix-count>
                </config>
                </stop-update>
              </maximum-prefix>
            </maximum-prefixes>
          </vrf-peer>
        </vrf-peers>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
      <vrf-peers>
        <vrf-peer>
          <peer-address>CML_IP_ADDR_T</peer-address>
          <config>
            <peer-address>CML_IP_ADDR_T</peer-address>
          </config>
          <maximum-prefixes>
            <maximum-prefix>
              <prefix-count>1</prefix-count>
            </maximum-prefix>
          </maximum-prefixes>
        </vrf-peer>
      </vrf-peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </vrf-peers>
        <vrf-peer>
          <peer-address>CML_IP_ADDR_T</peer-address>
          <config>
            <peer-address>CML_IP_ADDR_T</peer-address>
          </config>
          <maximum-prefixes>
            <maximum-prefix>
              <prefix-count>1</prefix-count>
              <config>
                <prefix-count>1</prefix-count>
              </config>
              <threshold-percentage>1</threshold-percentage>
            </maximum-prefix>
          </maximum-prefixes>
        </vrf-peer>
      </address-family-vrf>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

```

    </vrf-peers>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </vrf-peers>
        <vrf-peer>
          <peer-address>CML_IP_ADDR_T</peer-address>
          <config>
            <peer-address>CML_IP_ADDR_T</peer-address>
          </config>
          <maximum-prefixes>
            <maximum-prefix>
              <prefix-count>1</prefix-count>
            </maximum-prefix>
          </maximum-prefixes>
        </vrf-peer>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

        <prefix-count>1</prefix-count>
        <threshold-percentage>1</threshold-percentage>
    </config>
    </warning-only>
</maximum-prefix>
</maximum-prefixes>
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </vrf-peers>
          <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
              <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <bgp-passwords>
            <bgp-password>

```

```

        <password>WORD</password>
        <config>
            <password>WORD</password>
        </config>
        <auth-key-encrypt>1</auth-key-encrypt>
    </bgp-password>
</bgp-passwords>
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </vrf-peers>
        <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
                <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
        </vrf-peer>
    </bgp-instance>
</bgp-instances>
</bgp>

```



```

        <bgp-password>
          <password>WORD</password>
          <config>
            <password>WORD</password>
          </config>
          <auth-key-encrypt>2</auth-key-encrypt>
        </bgp-password>
      </bgp-passwords>
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor authentication-key WORD
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </vrf-peers>
      </vrf-peer>
      <peer-address>CML_IP_ADDR_T</peer-address>
      <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <distributed-list-filters>
    <distributed-list-filter>
        <filter-direction>in</filter-direction>
        <config>
            <filter-direction>in</filter-direction>
        </config>
        <access-list-identifier>WORD</access-list-identifier>
    </distributed-list-filter>
</distributed-list-filters>
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </vrf-peers>
        <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
        </config>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <as-list-filters>
    <as-list-filter>
        <as-list-direction>in</as-list-direction>
        <config>
            <as-list-direction>in</as-list-direction>
        </config>
        <as-access-list-identifier>WORD</as-access-list-identifier>
    </as-list-filter>
    </as-list-filters>
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor filter-list WORD (in|out)
```

Configure prefix list name

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <prefix-list-filters>
    <prefix-list-filter>
      <prefix-filter-direction>in</prefix-filter-direction>
      <config>
        <prefix-filter-direction>in</prefix-filter-direction>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
    </prefix-list-filter>
  </prefix-list-filters>
</vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
      <config>

```

```

        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <vrf-peers>
    <vrf-peer>
        <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
        <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <route-map-filters>
    <route-map-filter>
        <route-map-direction>in</route-map-direction>
    </config>
        <route-map-direction>in</route-map-direction>
    </config>
        <route-map-name>WORD</route-map-name>
    </route-map-filter>
    </route-map-filters>
    </vrf-peer>
    </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor route-map WORD (in|out)
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
    <vrf-peer>
      <peer-address>CML_IP_ADDR_T</peer-address>
      <config>
        <peer-address>CML_IP_ADDR_T</peer-address>
      </config>
      <local-as>
        <local-as-list> <!-- operation="delete"-->
          <peer-local-as>1</peer-local-as>
          <config>
            <peer-local-as>1</peer-local-as>
          </config>
        </local-as-list>
      </local-as>
    </vrf-peer>
  </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <vrf-peers>
  <vrf-peer>
    <peer-address>CML_IP_ADDR_T</peer-address>
    <config>
      <peer-address>CML_IP_ADDR_T</peer-address>
    </config>
    <local-as>
    <local-as-list>
      <peer-local-as>1</peer-local-as>
      <config>
        <peer-local-as>1</peer-local-as>
        </no-prepend-local-as>
        </replace-local-as>
      </config>
    </local-as-list>
    </local-as>
  </vrf-peer>
</vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure backdoor

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <network-lists>
            <network-list>
              <local-network-prefix>A.B.C.D</local-network-prefix>
              <config>
                <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
                <network-rmap-name>WORD</network-rmap-name>
              </config>
            </network-list>
          </network-lists>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
network (A.B.C.D | A.B.C.D/M) (route-map WORD|) (backdoor|)
```

Configure local network prefix

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </network-lists>
          <network-list>
            <local-network-prefix>A.B.C.D</local-network-prefix>
            <config>
              <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
              <network-rmap-name>WORD</network-rmap-name>
            </config>
          </backdoor>
        </network-list>
      </network-lists>
    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
network (X:X::X:X/M) (route-map WORD|) (backdoor|)
```

Configure validation enable

Enable BGP Origin Validation feature

This command is supported when following feature are enabled BGP RPKI

Attribute Name: validation-enable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <as-origin>
    <config>
      </validation-enable><!-- operation="delete"-->
    </config>
    </as-origin>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp origin-as validation-enable
```

Configure bestpath use validity

Enable to use BGP Origin Validation RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-use-validity

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>

```

```

<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
<as-origin>
<config>
  </bestpath-use-validity><!-- operation="delete"-->
</config>
</as-origin>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp origin-as bestpath use-validity
```

Configure bestpath allow invalid

Enable to handle a route with invalid RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-allow-invalid

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <as-origin>

```

```

    <config>
        </bestpath-allow-invalid><!-- operation="delete"-->
    </config>
</as-origin>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
bgp origin-as bestpath allow-invalid
```

Configure peer group tag

Creates a peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group> <!-- operation="delete"-->
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
                <peer-group-range>0</peer-group-range>
              </config>

```

```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD peer-group
```

Configure peer group range

this attribute creates a Dynamic peer group for address family. IPv4/IPv6 prefix range Must be specified to create dynamic peer group.

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-group-range>A.B.C.D/M</peer-group-range>
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

```
</bgp>
```

Command Syntax

```
neighbor WORD peer-group range A.B.C.D/M
```

Configure peer-group peer-group-range

this attribute creates a Dynamic peer group for address family. IPv4/IPv6 prefix range Must be specified to create dynamic peer group.

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-group-range> (X:X::X:X/M) </peer-group-range>
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD peer-group range (X:X::X:X/M)
```

Configure peer-groups peer-group-tag

Creates a peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group> <!-- operation="delete"-->
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>0</peer-group-range>
          </config>
        </peer-group>
      </peer-groups>
    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group
```

Configure group limit

Use this attribute to specify max number of peers in a dynamic peer-group for address family

Attribute Name: group-limit

Attribute Type: uint16

Attribute Range: 1-512

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <peer-groups>
          <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
              <peer-group-tag>WORD</peer-group-tag>
            </config>
            <group-limit>1</group-limit> <!-- operation="delete"-->
          </peer-group>
        </peer-groups>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD limit <1-512>
```

Configure peer-group peer-as

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-as>1</peer-as> <!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD remote-as <1-4294967295>
```

Configure peer-group source-identifier

This attribute allows internal BGP sessions to use any operational interface for TCP connections. Use this attribute in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <source-identifier>WORD</source-identifier> <!--
operation="delete"-->
      </peer-group>
    </peer-groups>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD update-source WORD
```

Configure peer-group bgp-version

BGP Version. This attribute configures router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Using this attribute disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD version (4)
```

Configure peer-group peer-connection-interval

Connect timer value. This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connection-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      <peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <peer-connection-interval>1</peer-connection-interval> <!--
operation="delete"-->
      </peer-group>
    </peer-groups>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD timers connect <1-65535>
```

Configure peer-group enforce-multihop

This attribute turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multihop

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>

```

```

        <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
            <peer-group-tag>WORD</peer-group-tag>
        </config>
        </enforce-multihop><!-- operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD enforce-multihop
```

Configure peer shutdown description

This attribute disables a neighbor administratively. Use this attribute to terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: uint8

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>

```

```

</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
    <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
  </config>
  </peer-shutdown><!-- operation="delete"-->
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD shutdown (description LINE|)
```

Configure peer-group neighbor-passive

Use this attribute to set a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
    <config>

```

```

        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
    <config>
        <peer-group-tag>WORD</peer-group-tag>
    </config>
        </neighbor-passive><!-- operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD passive
```

Configure peer-group enable-dynamic-capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </enable-dynamic-capability><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability dynamic
```

Configure peer-group min-route-advertisement-interval

Minimum route advertisement interval. Sets minimum interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds. BGP dampening can also be used to control the effects of flapping routes.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>

```



```

        <peer-group-tag>WORD</peer-group-tag>
    </config>
    <min-route-advertisement-interval>0</min-route-advertisement-
interval> <!-- operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertisement-interval <0-65535>
```

Configure peer-group peer-as-origin-interval

Time interval. This attribute adjust the interval of sending AS origination routing updates. This attribute is used to change the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->

```

```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD as-origination-interval <1-65535>
```

Configure peer-group neighbor-as-override

Use this attribute to configure a PE router to override the Autonomous System Number (ASN) of a site with the ASN of a provider. BGP normally ignores the routes from the same AS. However, this attribute is used to override the customers ASN in BGP, so that the customer CE accepts and installs routes from the same AS. Typically, this attribute is used when Customer Edge (CE) routers have the same ASN in some or all sites. As per BGP requirement, a BGP speaker rejects a route that has the same ASN as itself, in the AS_PATH attribute. Thus the CE routers having the same ASN do not accept routes from each other. Set neighborAsOverrideAf attribute on the PE router removes the CE neighbors ASN from the AS_PATH attribute allowing CE routers with the same ASN to accept routes from each other.

Attribute Name: neighbor-as-override

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                </neighbor-as-override><!-- operation="delete"-->
              </peer-group>
            </peer-groups>

```

```

    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD as-override
```

Configure peer-group peer-description

Use this attribute to associate a description with a neighbor. This attribute helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-description>LINE</peer-description> <!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD description LINE
```

Configure peer-group peer-restart-time

This attribute sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the graceful-restart-set attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer-group site-origin-identifier

Use this attribute to enable the site-of-origin (SOO) feature. If the customer AS is multi-homed to the ISP, this attribute ensures that the PE does not advertise the routes back to the same AS.

Attribute Name: site-origin-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <site-origin-identifier>AS:nn_or_IP:nn</site-origin-identifier> <!--
- operation="delete"-->
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD soo AS:nn_or_IP:nn
```

Configure peer-group graceful-shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to

flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                </graceful-shut><!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD g-shut
```

Configure peer-group graceful-shut-timer

Use this attribute to configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shut-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <graceful-shut-timer>10</graceful-shut-timer> <!--
operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD g-shut-timer <10-65535>
```

Configure peer-group bgp-port

The BGP port number of a neighbor

Attribute Name: bgp-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>

```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <bgp-port>0</bgp-port> <!-- operation="delete"-->
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD port <0-65535>
```

Configure peer-group enable-ext-opt-param-len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>

```



```

    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </enable-ext-opt-param-len><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

neighbor WORD extended-optional-param

Configure peer-group additional-paths-mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

        <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
    <config>
        <peer-group-tag>WORD</peer-group-tag>
    </config>
        <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure peer-group additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
        </peer-group>
        </peer-groups>
    </bgp-instance>
</bgp-instances>
</bgp>

```

```

        </config>
        </additional-path-select-all><!-- operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure peer-group additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>

```

```

</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD advertise additional-paths best <2-3>
```

Configure peer-group tcp-adjust-mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD tcp-mss <40-1440>
```

Configure peer-group enable-peer-bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              </enable-peer-bfd><!-- operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure peer-group enable-peer-bfd-multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                </enable-peer-bfd-multihop><!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd multihop
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <address-family-vrfs>
  <address-family-vrf>
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    </activate><!-- operation="delete"-->
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>

```

```

<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
</peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  </activate><!-- operation="delete"-->
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>

```



```

    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    </activate><!-- operation="delete"-->
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD activate
```

Configure peer-group default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
          <peer-group>
            <peer-group-tag>WORD</peer-group-tag>

```

```

    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    </default-peer-route-map-name><!-- operation="delete"-->
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD default-originate
```

Configure peer-group peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->

```

```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD default-originate route-map WORD
```

Configure peer-group weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <weight>0</weight> <!-- operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure peer-group weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <weight>0</weight> <!-- operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure peer-group flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                </flowspec-validation-disable><!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure peer-group peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              </peer-route-reflector><!-- operation="delete"-->
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer-group peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <peer-groups>
          <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
              <peer-group-tag>WORD</peer-group-tag>
            </config>
            </peer-route-reflector><!-- operation="delete"-->
          </peer-group>
        </peer-groups>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer-group peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
            </peer-remove-private-as><!-- operation="delete"-->
          </peer-group>
        </peer-groups>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remove-private-AS
```


Configure peer-group no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <peer-groups>
          <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
              <peer-group-tag>WORD</peer-group-tag>
            </config>
            </no-send-community><!-- operation="delete"-->
          </peer-group>
        </peer-groups>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure peer-group no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>
```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure peer-group no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```

<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      </no-send-community><!-- operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor WORD send-community
```

Configure peer-group no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>

```

```

    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure peer-group neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>

```

```

    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <peer-groups>
  <peer-group>
    <peer-group-tag>WORD</peer-group-tag>
    <config>
      <peer-group-tag>WORD</peer-group-tag>
    </config>
    <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!--
- operation="delete"-->
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged
```

Configure peer-group neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>

```

```

        <config>
            <peer-group-tag>WORD</peer-group-tag>
        </config>
        <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure peer-group orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
        </peer-group>
      </address-family-vrf>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure peer-group peer-allow-ebgp-vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <peer-allow-ebgp-vpn><!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allow-ebgp-vpn
```

Configure peer-group allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <allow-as-number>1</allow-as-number> <!-- operation="delete"-->

```



```

        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure peer-group capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
                <capability-graceful-restart><!-- operation="delete"-->
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>

```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure peer-group unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD unsuppress-map WORD
```

Configure optional as

Use this attribute to specify optional AS for BGP dynamic peer-group

Attribute Name: optional-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </config>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </peer-groups>
      <peer-group>
        <peer-group-tag>WORD</peer-group-tag>
        <config>
          <peer-group-tag>WORD</peer-group-tag>
        </config>
        <optional-as-lists>
        <optional-as-list> <!-- operation="delete"-->
          <optional-as>1</optional-as>
          <config>
            <optional-as>1</optional-as>
          </config>
        </optional-as-list>
        </optional-as-lists>
      </peer-group>
    </peer-groups>
  </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD optional-as <1-4294967295>
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <bgp-passwords>
            <bgp-password>
              <password>WORD</password>
              <config>
                <password>WORD</password>
              </config>
              <auth-key-encrypt>1</auth-key-encrypt>
            </bgp-password>
          </bgp-passwords>
        </peer-group>
      </peer-groups>
    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD authentication-key (0|1) WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <bgp-passwords>
            <bgp-password>
              <password>WORD</password>
              <config>
                <password>WORD</password>
              </config>
              <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
          </bgp-passwords>
        </peer-group>
      </peer-groups>
    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD authentication-key WORD
```

Configure keep alive

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <timers>
                <config>
                  <keep-alive>0</keep-alive>
                  <hold-time>0</hold-time>
                </config>
              </timers>
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure local-as peer-local-as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
            <local-as>
              <local-as-list> <!-- operation="delete"-->
                <peer-local-as>1</peer-local-as>
              <config>
                <peer-local-as>1</peer-local-as>
              </config>
            </local-as-list>
          </local-as>
        </peer-group>
      </peer-groups>
    </address-family-vrf>
  </address-family-vrfs>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295>
```

Configure replace local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
          <local-as>
            <local-as-list>
              <peer-local-as>1</peer-local-as>
            <config>
              <peer-local-as>1</peer-local-as>
              </no-prepend-local-as>
              </replace-local-as>
            </config>
          </local-as>
        </peer-group>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>
```



```

        </config>
      </local-as-list>
    </local-as>
  </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <ebgp-multihop>
                <config>
                  </enabled>
                </config>

```

```

        </ebgp-multihop>
    </peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
            <ebgp-multihop>
          </config>
        </peer-group>
      </address-family-vrf>
    </address-family-vrfs>
  </bgp-instance>
</bgp-instances>
</bgp>

```

```

        <maximum-hop-count>1</maximum-hop-count> <!--
operation="delete"-->
        </enabled><!-- operation="delete"-->
        </config>
    </ebgp-multihop>
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure maximum-prefixes prefix-count

This attribute specifies number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
  <bgp-instance>
    <bgp-as>1</bgp-as>
    <config>
      <bgp-as>1</bgp-as>
    </config>
    <address-family-vrfs>
    <address-family-vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <safi>unicast</safi>
        <afi>ipv4</afi>
      </config>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
    <maximum-prefixes>

```

```

        <maximum-prefix> <!-- operation="delete"-->
            <prefix-count>1</prefix-count>
        </maximum-prefix>
    </maximum-prefixes>
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </address-family-vrf>
      </address-family-vrfs>
      <peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
        </peer-group>
      </peer-groups>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

        <maximum-prefix>
            <prefix-count>1</prefix-count>
            <config>
                <prefix-count>1</prefix-count>
            </config>
        </stop-update>
    </maximum-prefix>
</maximum-prefixes>
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>
          <afi>ipv4</afi>
        </peer-groups>
        <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
            <peer-group-tag>WORD</peer-group-tag>
          </config>
        </peer-group>
      </address-family-vrf>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    </config>
    <maximum-prefixes>
    <maximum-prefix>
        <prefix-count>1</prefix-count>
    </config>
    </maximum-prefix-warning>
    </maximum-prefix>
    </maximum-prefixes>
    </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix threshold-percentage

Threshold-value in persen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
          <safi>unicast</safi>

```

```

    <afi>ipv4</afi>
  <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <maximum-prefixes>
        <maximum-prefix>
          <prefix-count>1</prefix-count>
          <config>
            <prefix-count>1</prefix-count>
          </config>
          <threshold-percentage>1</threshold-percentage>
        </maximum-prefix>
      </maximum-prefixes>
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

```

    <config>
      <vrf-name>WORD</vrf-name>
      <safi>unicast</safi>
      <afi>ipv4</afi>
    </config>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  <peer-groups>
    <peer-group>
      <peer-group-tag>WORD</peer-group-tag>
      <config>
        <peer-group-tag>WORD</peer-group-tag>
      </config>
      <maximum-prefixes>
        <maximum-prefix>
          <prefix-count>1</prefix-count>
          <config>
            <prefix-count>1</prefix-count>
            <threshold-percentage>1</threshold-percentage>
          </config>
          </warning-only>
        </maximum-prefix>
      </maximum-prefixes>
    </peer-group>
  </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>

```



```

<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
</peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <distribute-list-filters>
  <distribute-list-filter>
    <filter-direction>in</filter-direction>
    <config>
      <filter-direction>in</filter-direction>
    </config>
    <access-list-identifier>WORD</access-list-identifier>
  </distribute-list-filter>
</distribute-list-filters>
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>

```

```

</config>
<address-family-vrfs>
<address-family-vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <safi>unicast</safi>
    <afi>ipv4</afi>
  </config>
  <safi>unicast</safi>
  <afi>ipv4</afi>
<peer-groups>
<peer-group>
  <peer-group-tag>WORD</peer-group-tag>
  <config>
    <peer-group-tag>WORD</peer-group-tag>
  </config>
  <as-list-filters>
  <as-list-filter>
    <as-list-direction>in</as-list-direction>
    <config>
      <as-list-direction>in</as-list-direction>
    </config>
    <as-access-list-identifier>WORD</as-access-list-identifier>
  </as-list-filter>
</as-list-filters>
</peer-group>
</peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure prefix filter direction

This attribute specifies a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <prefix-list-filters>
                <prefix-list-filter>
                  <prefix-filter-direction>in</prefix-filter-direction>
                  <config>
                    <prefix-filter-direction>in</prefix-filter-direction>
                  </config>
                    <prefix-list-name>WORD</prefix-list-name>
                  </prefix-list-filter>
                </prefix-list-filters>
              </peer-group>
            </peer-groups>
          </address-family-vrf>
        </address-family-vrfs>
      </bgp-instance>
    </bgp-instances>
  </bgp>

```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
        <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
          <peer-groups>
            <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                <peer-group-tag>WORD</peer-group-tag>
              </config>
              <route-map-filters>
                <route-map-filter>
                  <route-map-direction>in</route-map-direction>
                  <config>
                    <route-map-direction>in</route-map-direction>
                  </config>
                  <route-map-name>WORD</route-map-name>
                </route-map-filter>
              </route-map-filters>
            </peer-group>
          </peer-groups>
        </address-family-vrf>
      </address-family-vrfs>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

clear ip bgp all vrf (VRFNAME|all|default) (description LINE|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
<ipi-bgp-address-family-vrf_clear-ip-bgp-all-vrf xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <vrf-name>VRFNAME</vrf-name>
  <peer-reset-description>l</peer-reset-description>
</ipi-bgp-address-family-vrf_clear-ip-bgp-all-vrf>
```

Command Syntax

```
clear ip bgp all vrf (VRFNAME|all|default) (description LINE|)
```

clear ip bgp vrf WORD (A.B.C.D|X:X::X:X|WORD|WORD) (description LINE|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: address

Attribute Type: union

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
<ipi-bgp-address-family-vrf_clear-ip-bgp-vrf-peer xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <vrf-name>WORD</vrf-name>
  <address>BGP_HOSTNAME_T</address>
  <peer-reset-description>l</peer-reset-description>
</ipi-bgp-address-family-vrf_clear-ip-bgp-vrf-peer>
```

Command Syntax

```
clear ip bgp vrf WORD (A.B.C.D|X:X::X:X|WORD|WORD) (description LINE|)
```

IPI-BGP-VRF

Configure rd string

Use this attribute to assign a route distinguisher (RD) for the VRF. The route distinguisher value must be a unique value on the router. This attribute creates routing and forwarding tables and specifies the default RD for a VPN. The RD is added to the customers IPv4 prefixes, changing them into globally unique VPN-IPv4 prefixes.

Attribute Name: rd-string

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
        <config>
          <rd-string>ASN:nn_or_IP-address:nn</rd-string> <!--
operation="delete"-->
        </config>
      </bgp-vrf>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
rd ASN:nn_or_IP-address:nn
```

Configure import map

This attribute assigns a route map to the VRF. This map is applied for routing information imported from another PE or VRF. Use this attribute when an application requires finer control over the routes imported into a VRF than provided by the import and export extended communities. You can filter routes that are eligible for import into a VRF through the use of a route map. The route map can deny access to selected routes from a community that is on the import list.

Attribute Name: import-map

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```

<network-instance>
  <instance-name>WORD</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vrf</instance-type>
  </config>
  <instance-type>vrf</instance-type>
  <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
      <config>
        <import-map>WORD</import-map> <!-- operation="delete"-->
      </config>
    </bgp-vrf>
  </vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
import map WORD
```

Configure export map

export map name

Attribute Name: export-map

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
        <config>
          <export-map>WORD</export-map> <!-- operation="delete"-->
        </config>
      </bgp-vrf>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
export map WORD
```

Configure direction

Use this attribute to add a list of import and export route-target extended communities to the VRF. This attribute creates lists of import and export route-target extended communities for the VRF. It specifies a target VPN extended community. All routes with the specific route-target extended community are imported into all VRFs with the same extended community as an import route-target.

Attribute Name: direction

Attribute Type: bits (import|export|both)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
        <route-targets>
          <route-target>
            <rt-rd-string>BGP_ROUTE_TARGET_TYPE_T</rt-rd-string>
            <config>
              <rt-rd-string>BGP_ROUTE_TARGET_TYPE_T</rt-rd-string>
            </config>
            <direction>import</direction>
          </route-target>
        </route-targets>
      </bgp-vrf>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
route-target (import|export|both) (ASN:nn_or_IP-address:nn|evpn-auto-rt)
```

Configure service type

Vlan-Based EVPN-Service Type

This command is supported when following feature are enabled MPLS feature enabled,bgp evpn feature enabled

Attribute Name: service-type

Attribute Type: enum (vlan-based|vlan-aware-bundle)

Default Value: vlan-aware-bundle

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vrf</instance-type>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <evpn-service-type xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
        <config>
          <service-type>vlan-aware-bundle</service-type> <!--
operation="delete"-->
        </config>
      </evpn-service-type>
    </vrf>
  </network-instance>
</network-instances>

```

Command Syntax

```
evpn-vlan-service (vlan-based|vlan-aware-bundle)
```

IPi-BGP-EPE

Configure enable epe

Use this attribute to enable Egress Peer Engineering for bgp

Attribute Name: enable-epe

Attribute Type: uint8

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peer-engineering>
        <config>
          </enable-epe><!-- operation="delete"-->
        </config>
      </peer-engineering>
    </bgp-instance>
  </bgp-instances>

```

```
</bgp>
```

Command Syntax

```
egress-engineering
```

Configure enable peer node

Use this attribute to enable peer node SID for bgp neighbor

Attribute Name: enable-peer-node

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <egress-engineering>
            <config>
              </enable-peer-node><!-- operation="delete"-->
            </config>
          </egress-engineering>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-node
```

Configure set name

Use this attribute for the set-name

Attribute Name: set-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```

<bgp-instance>
  <bgp-as>1</bgp-as>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <config>
        <peer-address>BGP_IP_ADDR_T</peer-address>
      </config>
      <egress-engineering>
      <peer-set>
        <config>
          <set-name>NAME</set-name>
        </config>
      </peer-set>
    </egress-engineering>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-set NAME
```

Configure address

Use this attribute for the backup peer-address

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <egress-engineering>
          <backup>

```

```

        <peer-node>
        <config>
            <address>A.B.C.D</address>
        </config>
    </peer-node>
</backup>
</egress-engineering>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

neighbor (A.B.C.D|X:X::X:X) peer-node backup backup-type peer-node backup-peer
A.B.C.D

```

Configure peer address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: adjacent-address

Attribute Type: string

Attribute Name: nexthop-address

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
    <bgp-as>1</bgp-as>
    <config>
        <bgp-as>1</bgp-as>
    </config>
</peers>
<peer>
    <peer-address>A.B.C.D|X:X::X:X</peer-address>
    <egress-engineering>
    <backup>
    <adjacency>
    <config>
        <adjacent-address>A.B.C.D</adjacent-address>
        <nexthop-address>NEXTHOP</nexthop-address>
    </config>

```

```

    </adjacency>
  </backup>
</egress-engineering>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

neighbor (A.B.C.D|X:X::X:X) peer-node backup backup-type peer-adj backup-peer
A.B.C.D hop-address NHOP

```

Configure hop address

Use this attribute for the hop-address

Attribute Name: hop-address

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
          <egress-engineering>
            <peer-adjacencies>
              <peer-adjacency> <!-- operation="delete"-->
                <hop-address>A.B.C.D</hop-address>
                <config>
                  <hop-address>A.B.C.D</hop-address>
                </config>
              </peer-adjacency>
            </peer-adjacencies>
          </egress-engineering>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D
```

Configure hop address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: hop-address

Attribute Type: string

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <peers>
        <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <egress-engineering>
            <peer-adjacencies>
              <peer-adjacency>
                <hop-address>A.B.C.D</hop-address>
                <backup>
                  <peer-node>
                    <config>
                      <address>A.B.C.D</address>
                    </config>
                  </peer-node>
                </backup>
              </peer-adjacency>
            </peer-adjacencies>
          </egress-engineering>
        </peer>
      </peers>
    </bgp-instance>
  </bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D backup backup-type peer-
node backup-peer A.B.C.D
```

Configure adjacent address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: hop-address

Attribute Type: string

Attribute Name: adjacent-address

Attribute Type: string

Attribute Name: nexthop-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
    </bgp-instance>
  </bgp-instances>
  <config>
    <bgp-as>1</bgp-as>
  </config>
  <peers>
    <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <egress-engineering>
        <peer-adjacencies>
          <peer-adjacency>
            <hop-address>A.B.C.D</hop-address>
            <backup>
              <adjacency>
                <config>
                  <adjacent-address>A.B.C.D</adjacent-address>
                  <nexthop-address>NEXTHOP</nexthop-address>
                </config>
              </adjacency>
            </backup>
          </peer-adjacency>
        </peer-adjacencies>
      </egress-engineering>
    </peer>
  </peers>
```

```

</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D backup backup-type peer-
adj backup-peer A.B.C.D hop-address NHOP

```

IPI-BGP-FLOWSPEC

Configure enable flowspec controller

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: empty

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller> <!-- operation="delete"-->
        </enable-flowspec-controller>
      <config>
        </enable-flowspec-controller>
      </config>
    </controller>
  </controllers>
</flowspec>
</bgp>

```

Command Syntax

```
flowspec
```

Configure local install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller>
        </enable-flowspec-controller>

```



```

    <config>
      </enable-flowspec-controller><!-- operation="delete"-->
    </config>
    <local-install>interface-all</local-install> <!-- operation="delete"-->
  </controller>
</controllers>
</flowspec>
</bgp>

```

Command Syntax

```
local-install (interface-all)
```

Configure afi type

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller> <!-- operation="delete"-->
        </enable-flowspec-controller>
      </controller>
    </controllers>
  </flowspec>
  <config>
    </enable-flowspec-controller>
  </config>
  <address-families>
    <address-family>
      <afi-type>ipv4</afi-type>
    </address-family>
  </address-families>
</bgp>

```

Command Syntax

```
address-family (ipv4)
```

Configure address-family local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller>
        </enable-flowspec-controller>
        <config>
          </enable-flowspec-controller><!-- operation="delete"-->
        </config>
      <address-families>
        <address-family>
          <afi-type>ipv4</afi-type>
          <config>
            <afi-type>ipv4</afi-type>
          </config>
          <local-install>interface-all</local-install> <!-- operation="delete"-->
        </address-family>
      </address-families>
    </controller>
  </controllers>
</flowspec>
</bgp>
```

Command Syntax

```
local-install (interface-all)
```

Configure service policy type

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Attribute Name: service-policy-type

Attribute Type: enum (pbr)

Attribute Name: attached-policy-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller> <!-- operation="delete"-->
        </enable-flowspec-controller>
      </config>
    </controllers>
  </flowspec>
</bgp>
```

```

    </enable-flowspec-controller>
  </config>
  <address-families>
    <address-family>
      <afi-type>ipv4</afi-type>
      <service-policies>
        <service-policy>
          <service-policy-type>pbr</service-policy-type>
          <attached-policy-map-name>WORD</attached-policy-map-name>
        </service-policy>
      </service-policies>
    </address-family>
  </address-families>
</controller>
</controllers>
</flowspec>
</bgp>

```

Command Syntax

```
service-policy type (pbr) NAME
```

Configure vrf name

Use this attribute to show the VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller>
        </enable-flowspec-controller>
      </controller>
    </controllers>
  </flowspec>
  <vrf> <!-- operation="delete"-->
    <vrf-name>WORD</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
    </config>
  </vrf>
</vrf>
</bgp>

```

Command Syntax

vrf WORD

Configure vrf local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
    <controllers>
      <controller>
        </enable-flowspec-controller>
        <config>
          </enable-flowspec-controller><!-- operation="delete"-->
        </config>
      <vrfs>
        <vrf>
          <vrf-name>WORD</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            </config>
            <local-install>interface-all</local-install> <!-- operation="delete"-->
          </vrf>
        </vrfs>
      </controller>
    </controllers>
  </flowspec>
</bgp>
```

Command Syntax

local-install (interface-all)

Configure controllers enable-flowspec-controller

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller> <!-- operation="delete"-->
  </enable-flowspec-controller>
  <config>
    </enable-flowspec-controller>
  </config>
</vrf>
</vrf>
  <vrf-name>WORD</vrf-name>
  <address-families>
    <address-family>
      <afi-type>ipv4</afi-type>
    </address-family>
  </address-families>
</vrf>
</vrf>
</controller>
</controllers>
</flowspec>
</bgp>

```

Command Syntax

```
address-family (ipv4)
```

Configure address-family local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
  </enable-flowspec-controller>
  <config>
    </enable-flowspec-controller><!-- operation="delete"-->
  </config>
</vrf>
</vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
</vrf>
</controller>
</controllers>
</flowspec>
</bgp>

```

```

    </config>
    <address-families>
    <address-family>
        <afi-type>ipv4</afi-type>
        <config>
            <afi-type>ipv4</afi-type>
        </config>
        <local-install>interface-all</local-install> <!-- operation="delete"-->
    >
        </address-family>
    </address-families>
</vrf>
</vrfs>
</controller>
</controllers>
</flowspec>
</bgp>

```

Command Syntax

```
local-install (interface-all)
```

Configure attached policy map name

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Attribute Name: service-policy-type

Attribute Type: enum (pbr)

Attribute Name: attached-policy-map-name

Attribute Type: string

Netconf edit-config payload

```

<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <flowspec>
  <controllers>
  <controller> <!-- operation="delete"-->
    </enable-flowspec-controller>
  <config>
    </enable-flowspec-controller>
  </config>
  <vrfs>
  <vrf>

```

```

    <vrf-name>WORD</vrf-name>
    <address-families>
    <address-family>
        <afi-type>ipv4</afi-type>
        <service-policies>
        <service-policy>
            <service-policy-type>pbr</service-policy-type>
            <attached-policy-map-name>WORD</attached-policy-map-name>
        </service-policy>
        </service-policies>
    </address-family>
    </address-families>
</vrf>
</vrfs>
</controller>
</controllers>
</flowspec>
</bgp>

```

Command Syntax

```
service-policy type (pbr) NAME
```

IPI-BGP-RPKI

Configure server address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: union

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <rpki>
        <servers>
          <server>
            <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
            <config>
              <server-protocol-type>tcp</server-protocol-type>
              <port>0</port>
              <user>WORD</user>
              <auth-key-encrypt>1</auth-key-encrypt>
              <password>WORD</password>
              <refresh-interval>1</refresh-interval>
              <retry-interval>1</retry-interval>
              <expire-interval>600</expire-interval>
            </config>
          </server>
        </servers>
      </rpki>
    </bgp-instance>
```



```
    </bgp-instances>  
</bgp>
```

Command Syntax

```
bgp rpki server (A.B.C.D|X:X::X:X) ((tcp|)) (port <0-65535>|) (refresh <1-86400>|)  
    (retry <1-7200>|) (expire <600-17200>|)
```

Configure server protocol type

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: inet:ipv4-address

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
    </bgp-instance>
  </bgp-instances>
  <rpki>
    <servers>
      <server>
        <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
        <config>
          <server-protocol-type>tcp</server-protocol-type>
          <port>0</port>
          <user>WORD</user>
          <auth-key-encrypt>1</auth-key-encrypt>
          <password>WORD</password>
          <refresh-interval>1</refresh-interval>
          <retry-interval>1</retry-interval>
          <expire-interval>600</expire-interval>
        </config>
      </server>
    </servers>
  </rpki>
</bgp>
```

Command Syntax

```
bgp rpki server (ssh) (port <0-65535>|) user WORD encrypt (0|1) password WORD
  (refresh <1-86400>|) (retry <1-7200>|) (expire <600-17200>|)
```

Configure port

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: inet:ipv4-address

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
    <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
        <bgp-as>1</bgp-as>
      </config>
      <rpki>
      <servers>
      <server>
        <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
        <config>
          <server-protocol-type>tcp</server-protocol-type>
```

```

    <port>0</port>
    <user>WORD</user>
    <auth-key-encrypt>1</auth-key-encrypt>
    <password>WORD</password>
    <refresh-interval>1</refresh-interval>
    <retry-interval>1</retry-interval>
    <expire-interval>600</expire-interval>
    </config>
  </server>
</servers>
</rpki>
</bgp-instance>
</bgp-instances>
</bgp>

```

Command Syntax

```

bgp rpki server (ssh) (port <0-65535>|) user WORD password WORD (refresh <1-86400>|) (retry <1-7200>|) (expire <600-17200>|)

```

IPI-ENHANCED-PBR

Configure class type

Use this attribute to set the class-map type.

Attribute Name: class-type

Attribute Type: enum (traffic)

Attribute Name: match-criteria

Attribute Type: enum (match-all)

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map> <!-- operation="delete"-->
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
        <match-criteria>match-all</match-criteria>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
</enhanced-pbr>

```

Command Syntax

```

class-map type (traffic) (match-all) NAME

```

Configure protocol

Use this attribute to specify IP protocol

Attribute Name: protocol

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <config>
      <protocol>WORD</protocol> <!-- operation="delete"-->
    </config>
  </match-filters>
</enhanced-pbr>
```

Command Syntax

```
match protocol WORD
```

Configure port

Use this attribute to specify TCP/UDP port number

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
```

```
<config>
  <port>WORD</port> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match port WORD
```

Configure destination port

Use this attribute to specify TCP/UDP destination port number

Attribute Name: destination-port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <config>
      <destination-port>WORD</destination-port> <!-- operation="delete"-->
    </config>
  </match-filters>
</enhanced-pbr>
```

Command Syntax

```
match destination-port WORD
```

Configure source port

Use this attribute to specify TCP/UDP source port number

Attribute Name: source-port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
  <class-type>traffic</class-type>
  <config>
    <class-type>traffic</class-type>
    <name>NAME</name>
  </config>
  <name>WORD</name>
</match-filters>
<config>
  <source-port>WORD</source-port> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match source-port WORD
```

Configure packet length

Use this attribute to specify packet-length value

Attribute Name: packet-length

Attribute Type: string

Attribute Range: 21-12288

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
  <class-type>traffic</class-type>
  <config>
    <class-type>traffic</class-type>
    <name>NAME</name>
  </config>
  <name>WORD</name>
</match-filters>
<config>
  <packet-length>WORD</packet-length> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match packet-length WORD
```

Configure fragment type

Use this attribute to specify fragment type value

Attribute Name: fragment-type

Attribute Type: enum (df|isf|ff|lf|lf-ff-isf)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <config>
      <fragment-type>df</fragment-type> <!-- operation="delete"-->
    </config>
  </match-filters>
</enhanced-pbr>
```

Command Syntax

```
match fragment-type (df|isf|ff|lf|lf-ff-isf)
```

Configure destination prefix

Use this attribute to specify IPv4 prefix

Attribute Name: destination-prefix

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
```



```

<ipv4>
<config>
    <destination-prefix>A.B.C.D/M</destination-prefix> <!-- operation="delete"-->
</config>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match destination-address ipv4 A.B.C.D/M
```

Configure source prefix

Use this attribute to specify IPv4 prefix

Attribute Name: source-prefix

Attribute Type: string

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
    <class-type>traffic</class-type>
    <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
    </config>
    <name>WORD</name>
</match-filters>
<ipv4>
<config>
    <source-prefix>A.B.C.D/M</source-prefix> <!-- operation="delete"-->
</config>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match source-address ipv4 A.B.C.D/M
```

Configure icmp type

Use this attribute to specify ICMP type

Attribute Name: icmp-type

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <ipv4>
      <icmp>
        <config>
          <icmp-type>WORD</icmp-type> <!-- operation="delete"-->
        </config>
      </icmp>
    </ipv4>
  </match-filters>
</enhanced-pbr>
```

Command Syntax

```
match ipv4 icmp-type WORD
```

Configure icmp code

Use this attribute to specify ICMP code

Attribute Name: icmp-code

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <ipv4>
      <icmp>
        <config>
```

```

        <icmp-code>WORD</icmp-code> <!-- operation="delete"-->
</config>
</icmp>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match ipv4 icmp-code WORD
```

Configure bit mask

Use this attribute to specify bit-mask for TCP flag

Attribute Name: bit-mask

Attribute Type: string

Attribute Name: value

Attribute Type: string

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
  <class-type>traffic</class-type>
  <config>
    <class-type>traffic</class-type>
    <name>NAME</name>
  </config>
  <name>WORD</name>
</match-filters>
<tcp-flag>
<config>
  <value>WORD</value> <!-- operation="delete"-->
  <bit-mask>WORD</bit-mask> <!-- operation="delete"-->
</config>
</tcp-flag>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>

```

Command Syntax

```
match tcp-flag WORD bit-mask WORD
```

Configure match dscp value

Use this attribute to specify dscp value

Attribute Name: match-dscp-value

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <class-maps>
    <class-map>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <name>NAME</name>
      </config>
      <name>WORD</name>
    </class-map>
  </class-maps>
  <match-filters>
    <dscp>
      <config>
        <match-dscp-value>WORD</match-dscp-value> <!-- operation="delete"-->
      </config>
    </dscp>
  </match-filters>
</enhanced-pbr>
```

Command Syntax

```
match dscp WORD
```

Configure type

Use this attribute to set the policy-map type.

Attribute Name: type

Attribute Type: enum (pbr)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <policy-maps>
    <policy-map> <!-- operation="delete"-->
      <type>pbr</type>
      <config>
        <type>pbr</type>
        <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
    </policy-map>
  </policy-maps>
</enhanced-pbr>
```

Command Syntax

```
policy-map type (pbr) NAME
```

Configure reference description

This attribute configures reference description message on policy-map profile

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <policy-maps>
    <policy-map>
      <type>pbr</type>
      <config>
        <type>pbr</type>
        <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
      <reference-description>LINE</reference-description> <!-- operation="delete"-->
    </policy-map>
  </policy-maps>
</enhanced-pbr>
```

Command Syntax

```
reference-description LINE
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (traffic)

Attribute Name: class-map-name

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <policy-maps>
    <policy-map> <!-- operation="delete"-->
      <type>pbr</type>
      <config>
        <type>pbr</type>
        <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
    </policy-map>
  </policy-maps>
</enhanced-pbr>
```

```

<class>
  <class-type>traffic</class-type>
  <class-map-name>WORD</class-map-name>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>

```

Command Syntax

```
class type (traffic) NAME
```

Configure drop traffic

Use this attribute to specify drop action

Attribute Name: drop-traffic

Attribute Type: empty

Netconf edit-config payload

```

<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map>
  <type>pbr</type>
  <config>
    <type>pbr</type>
    <policy-map-name>WORD</policy-map-name>
  </config>
  <policy-map-name>WORD</policy-map-name>
</classes>
<class>
  <class-type>traffic</class-type>
  <config>
    <class-type>traffic</class-type>
    <class-map-name>NAME</class-map-name>
  </config>
    <class-map-name>WORD</class-map-name>
  <policy-actions>
  <config>
    </drop-traffic><!-- operation="delete"-->
  </config>
</policy-actions>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>

```

Command Syntax

```
drop
```

Configure dscp set value

Use this attribute to specify DSCP value

Attribute Name: dscp-set-value

Attribute Type: enum

(00|01|02|03|04|05|06|07|08|09|0a|0b|0c|0d|0e|0f|10|11|12|13|14|15|16|17|18|19|1a|1b|1c|1d|1e|1f|20|21|22|23|24|25|26|27|28|29|2a|2b|2c|2d|2e|2f|30|31|32|33|34|35|36|37|38|39|3a|3b|3c|3d|3e|3f)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <policy-maps>
    <policy-map>
      <type>pbr</type>
      <config>
        <type>pbr</type>
        <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
    </policy-map>
  </policy-maps>
  <classes>
    <class>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <class-map-name>NAME</class-map-name>
      </config>
      <class-map-name>WORD</class-map-name>
    </class>
  </classes>
  <policy-actions>
    <config>
      <dscp-set-value>00</dscp-set-value> <!-- operation="delete"-->
    </config>
  </policy-actions>
</enhanced-pbr>
```

Command Syntax

```
set dscp
(00|01|02|03|04|05|06|07|08|09|0a|0b|0c|0d|0e|0f|10|11|12|13|14|15|16|17|18|19|1a|1b|1c|1d|1e|1f|20|21|22|23|24|25|26|27|28|29|2a|2b|2c|2d|2e|2f|30|31|32|33|34|35|36|37|38|39|3a|3b|3c|3d|3e|3f)
```

Configure rate unit

Use this attribute to set a rate unit.

Attribute Name: rate-unit

Attribute Type: enum (bps|pps)

Default Value: bps

Attribute Name: rate

Attribute Type: uint64

Attribute Range: 1-1000000000

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
  <policy-maps>
    <policy-map>
      <type>pbr</type>
      <config>
        <type>pbr</type>
        <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
    </policy-map>
  </policy-maps>
  <classes>
    <class>
      <class-type>traffic</class-type>
      <config>
        <class-type>traffic</class-type>
        <class-map-name>NAME</class-map-name>
      </config>
      <class-map-name>WORD</class-map-name>
    </class>
  </classes>
  <policy-actions>
    <police>
      <config>
        <rate>1</rate> <!-- operation="delete"-->
        <rate-unit>bps</rate-unit> <!-- operation="delete"-->
      </config>
    </police>
  </policy-actions>
</enhanced-pbr>
```

Command Syntax

```
police rate <1-1000000000> (bps|pps)
```

Configure route target

Use this attribute to specify route target for rt redirect action

Attribute Name: route-target

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
```



```

<policy-maps>
<policy-map>
  <type>pbr</type>
  <config>
    <type>pbr</type>
    <policy-map-name>WORD</policy-map-name>
  </config>
  <policy-map-name>WORD</policy-map-name>
</classes>
<class>
  <class-type>traffic</class-type>
  <config>
    <class-type>traffic</class-type>
    <class-map-name>NAME</class-map-name>
  </config>
  <class-map-name>WORD</class-map-name>
  <policy-actions>
  <redirect>
  <ipv4>
  <extcommunity>
  <config>
    <route-target>ASN:nn_or_IP-address:nn</route-target> <!--
operation="delete"-->
  </config>
</extcommunity>
</ipv4>
</redirect>
</policy-actions>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>

```

Command Syntax

```
redirect ipv4 extcommunity rt ASN:nn_or_IP-address:nn
```

IPI-BFD

Configure disable default vccv capability

Use this attribute to disable default vccv capability.

Attribute Name: disable-default-vccv-capability

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls-vccv xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
```

```
<config>
  </disable-default-vccv-capability><!-- operation="delete"-->
</config>
</oam-mpls-vccv>
```

Command Syntax

```
disable-default-vccv-capability
```

Configure l2vpn ping use fec128 tlv

Use this attribute to send fec128 tlv for l2vpn bgp vpls

Attribute Name: l2vpn-ping-use-fec128-tlv

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls-vccv xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <config>
    </l2vpn-ping-use-fec128-tlv><!-- operation="delete"-->
  </config>
</oam-mpls-vccv>
```

Command Syntax

```
l2vpn-ping-use-fec128-tlv
```

Configure notification enabled

Use this attribute to enable or disable BFD SNMP notification.

Attribute Name: notification-enabled

Attribute Type: boolean

Default Value: false

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <global>
    <config>
      <notification-enabled>true</notification-enabled> <!-- operation="delete"-->
    </config>
  </global>
</bfd>
```

Command Syntax

```
bfd notification (disable|enable)
```

Configure echo mode enabled

This leaf exists when echo mode is running between the local and remote system. When it does not exist, solely asynchronous mode is active.

Attribute Name: echo-mode-enabled

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <global>
    <config>
      </echo-mode-enabled><!-- operation="delete"-->
    </config>
  </global>
</bfd>
```

Command Syntax

```
bfd echo
```

Configure slow tx interval

Use this command to set a BFD slow timer interval.

Attribute Name: slow-tx-interval

Attribute Type: uint32

Default Value: 1703

Attribute Range: 1000-1703

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <global>
    <config>
      <slow-tx-interval>1000</slow-tx-interval> <!-- operation="delete"-->
    </config>
  </global>
</bfd>
```

Command Syntax

```
bfd slow-timer <1000-1703>
```

Configure detection multiplier

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
```

```

<global>
<multihop-peer-intervals>
<multihop-peer-interval> <!-- operation="delete"-->
  <detection-multiplier>3</detection-multiplier>
  <config>
    <detection-multiplier>3</detection-multiplier>
    <required-minimum-rx-interval>3</required-minimum-rx-interval>
    <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
  </config>
  <required-minimum-rx-interval>50</required-minimum-rx-interval>
  <desired-minimum-tx-interval>50</desired-minimum-tx-interval>
</multihop-peer-interval>
</multihop-peer-intervals>
</global>
</bfd>

```

Command Syntax

```
bfd multihop-peer-interval <50-999> minrx <50-999> multiplier <3-50>
```

Configure desired minimum tx interval

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<global>
<intervals>
<interval> <!-- operation="delete"-->
  <detection-multiplier>3</detection-multiplier>
  <config>
    <detection-multiplier>3</detection-multiplier>
    <required-minimum-rx-interval>3</required-minimum-rx-interval>
    <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
  </config>
  <required-minimum-rx-interval>3</required-minimum-rx-interval>
  <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
</interval>
</intervals>
</global>
</bfd>

```

Command Syntax

```
bfd interval <3-999> minrx <3-999> multiplier <3-50>
```

Configure remote address

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <peers>
    <peer>
      <remote-address>A.B.C.D</remote-address>
      <config>
        <remote-address>A.B.C.D</remote-address>
      </config>
    </peer>
  </peers>
  <intervals>
    <interval> <!-- operation="delete"-->
      <detection-multiplier>3</detection-multiplier>
      <config>
        <detection-multiplier>3</detection-multiplier>
        <required-minimum-rx-interval>3</required-minimum-rx-interval>
        <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
      </config>
      <required-minimum-rx-interval>50</required-minimum-rx-interval>
      <desired-minimum-tx-interval>50</desired-minimum-tx-interval>
    </interval>
  </intervals>
</bfd>
```

Command Syntax

```
bfd multihop-peer (A.B.C.D|X:X::X:X) interval <50-999> minrx <50-999> multiplier
<3-50>
```

Configure key string

Use this attribute to specify the key authentication string

Attribute Name: key-string

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (simple|keyed-sha1|meticulous-keyed-sha1)

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: key-encrypted

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <peers>
    <peer>
      <remote-address>A.B.C.D</remote-address>
      <config>
        <remote-address>A.B.C.D</remote-address>
      </config>
    </peer>
  </peers>
  <authentication>
    <config>
      <key-type>simple</key-type> <!-- operation="delete"-->
      <key-id>0</key-id> <!-- operation="delete"-->
      <key-encrypted>0</key-encrypted> <!-- operation="delete"-->
      <key-string>WORD</key-string> <!-- operation="delete"-->
    </config>
  </authentication>
</bfd>
```

Command Syntax

```
bfd multihop-peer (A.B.C.D|X:X::X:X) auth type (simple|keyed-sha1|meticulous-keyed-
sha1) key-id <0-255> (0|1) key WORD
```

Configure options

Use this attribute to debug the oamd process.

Attribute Name: options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <debug>
    <config>
      <options>events</options> <!-- operation="delete"-->
    </config>
  </debug>
</bfd>
```

Command Syntax

```
debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

Configure enable oam srv6

Use this attribute to debug OAM SRV6

Attribute Name: enable-oam-srv6

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <debug>
    <config>
      </enable-oam-srv6><!-- operation="delete"-->
    </config>
  </debug>
</bfd>
```

Command Syntax

```
debug oam srv6
```

Configure enable mpls ping request

Use this attribute to enable or disable MPLS ping request DSMAP TLV

This command is supported when following feature are enabled MPLS-OAM feature enabled

Attribute Name: enable-mpls-ping-request

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <config>
    </enable-mpls-ping-request><!-- operation="delete"-->
  </config>
</oam-mpls>
```

Command Syntax

```
mpls-ping-request-dsmap-tlv
```

Configure mpls ping reply

Use this attribute to enable or disable MPLS ping reply TLV

This command is supported when following feature are enabled MPLS-OAM feature enabled

Attribute Name: mpls-ping-reply

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <config>
    </mpls-ping-reply><!-- operation="delete"-->
  </config>
</oam-mpls>
```

```
</config>
</oam-mps>
```

Command Syntax

```
mps-ping-reply-tlv
```

snmp restart bfd

Netconf RPC payload

```
<bfd-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
snmp restart bfd
```

debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf RPC payload

```
<bfd-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<terminal-debug-options>events</terminal-debug-options>
</bfd-terminal-debug-on>
```

Command Syntax

```
debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

no debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf RPC payload

```
<bfd-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<terminal-debug-options>events</terminal-debug-options>
</bfd-terminal-debug-off>
```

Command Syntax

```
no debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

debug oam srv6

Netconf RPC payload

```
<debug-oam-srv6-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
debug oam srv6
```

no debug oam srv6

Netconf RPC payload

```
<debug-oam-srv6-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
no debug oam srv6
```

IPI-BFD-INTERFACE

Configure bfd disabled

Use this attribute to enable or disable all the BFD sessions on this interface.

Attribute Name: bfd-disabled

Attribute Type: uint8

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </bfd-disabled><!-- operation="delete"-->
    </interface>
  </interfaces>
</bfd>
```

Command Syntax

```
bfd disable
```

Configure bfd session type

Use this attribute to offload Single HOP BFD sessions to software or hardware.

Attribute Name: bfd-session-type

Attribute Type: enum (hardware|software)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <bfd-session-type>hardware</bfd-session-type> <!-- operation="delete"-->
</interface>
</interfaces>
</bfd>

```

Command Syntax

```
bfd session (hardware|software)
```

Configure detection multiplier

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <intervals>
        <interval> <!-- operation="delete"-->
          <detection-multiplier>3</detection-multiplier>
          <config>
            <detection-multiplier>3</detection-multiplier>
            <required-minimum-rx-interval>3</required-minimum-rx-interval>
            <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
          </config>
          <required-minimum-rx-interval>3</required-minimum-rx-interval>
          <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
        </interval>
      </intervals>
    </interface>
  </interfaces>
</bfd>

```

Command Syntax

```
bfd interval <3-999> minrx <3-999> multiplier <3-50>
```

Configure ipv4 source

Use this attribute to configure BFD echo packet IPv4 source address

Attribute Name: ipv4-source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <echo>
        <config>
          <ipv4-source>A.B.C.D</ipv4-source> <!-- operation="delete"-->
        </config>
      </echo>
    </interface>
  </interfaces>
</bfd>
```

Command Syntax

```
echo ipv4 source A.B.C.D
```

Configure name

Use this attribute to configure BFD echo packet IPv4 source address

Attribute Name: ipv4-source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <echo>
        <config>
          <ipv4-source>A.B.C.D</ipv4-source> <!-- operation="delete"-->
        </config>
      </echo>
    </interface>
  </interfaces>
</bfd>
```

Command Syntax

```
bfd echo ipv4 source A.B.C.D
```

Configure required minimum tx interval

Use this attribute to configure BFD echo packet transmission interval, in milliseconds

Attribute Name: required-minimum-tx-interval

Attribute Type: uint32

Attribute Range: 50-4294967

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <echo>
        <config>
          <required-minimum-tx-interval>50</required-minimum-tx-interval> <!--
operation="delete"-->
        </config>
      </echo>
    </interface>
  </interfaces>
</bfd>
```

Command Syntax

```
bfd echo interval <50-4294967>
```

Configure key string

Use this attribute to specify the key authentication string

Attribute Name: key-string

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (simple|keyed-sha1|meticulous-keyed-sha1)

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: key-encrypted

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <authentication>
        <config>
          <key-type>simple</key-type> <!-- operation="delete"-->
          <key-id>0</key-id> <!-- operation="delete"-->
          <key-encrypted>0</key-encrypted> <!-- operation="delete"-->
          <key-string>WORD</key-string> <!-- operation="delete"-->
        </config>
      </authentication>
    </interface>
  </interfaces>
</bfd>
```

Command Syntax

```
bfd auth type (simple|keyed-sha1|meticulous-keyed-sha1) key-id <0-255> (0|1) key
WORD
```

Configure session type

BFD session type

Attribute Name: session-type

Attribute Type: enum (singlehop|multihop)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <sessions>
        <session> <!-- operation="delete"-->
          <session-type>singlehop</session-type>
          <config>
            <session-type>singlehop</session-type>
            <remote-address>A.B.C.D</remote-address>
            <local-address>A.B.C.D</local-address>
          </config>
          <remote-address>A.B.C.D</remote-address>
          <local-address>A.B.C.D</local-address>
        </session>
      </sessions>
    </interface>
  </interfaces>
</bfd>
```

```

</sessions>
</interface>
</interfaces>
</bfd>

```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|)
```

Configure administrative down

BFD administrative down session

Attribute Name: administrative-down

Attribute Type: empty

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <sessions>
  <session>
    <session-type>singlehop</session-type>
    <config>
      <session-type>singlehop</session-type>
      <remote-address>A.B.C.D</remote-address>
      <local-address>A.B.C.D</local-address>
    </config>
    <remote-address>A.B.C.D</remote-address>
    <local-address>A.B.C.D</local-address>
    </administrative-down><!-- operation="delete"-->
  </session>
</sessions>
</interface>
</interfaces>
</bfd>

```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|) admin-down
```

Configure non persistent

BFD non persistent session

Attribute Name: non-persistent

Attribute Type: empty

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <sessions>
  <session>
    <session-type>singlehop</session-type>
    <config>
      <session-type>singlehop</session-type>
      <remote-address>A.B.C.D</remote-address>
      <local-address>A.B.C.D</local-address>
    </config>
    <remote-address>A.B.C.D</remote-address>
    <local-address>A.B.C.D</local-address>
    </non-persistent><!-- operation="delete"-->
  </session>
</sessions>
</interface>
</interfaces>
</bfd>

```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|) non-persistent
```

IPI-SEAMLESS-BFD

Configure sr policy name

This attribute is used to configure policy-name of the SR S-BFD session

Attribute Name: sr-policy-name

Attribute Type: string

Netconf edit-config payload

```

<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy> <!-- operation="delete"-->
  <sr-policy-name>NAME</sr-policy-name>
  <config>
    <sr-policy-name>WORD</sr-policy-name>
    <lsp-type>sr</lsp-type>
  </config>
  <lsp-type>sr</lsp-type>
</sr-policy>

```

```
</sr-policies>
</seamless-bfd>
```

Command Syntax

```
s-bfd (sr) policy NAME
```

Configure admin down

This attribute is used to shutdown selected S-BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy>
  <sr-policy-name>NAME</sr-policy-name>
  <config>
    <sr-policy-name>WORD</sr-policy-name>
    <lsp-type>sr</lsp-type>
  </config>
  <lsp-type>sr</lsp-type>
</session-attributes>
<config>
  </admin-down><!-- operation="delete"-->
</config>
</session-attributes>
</sr-policy>
</sr-policies>
</seamless-bfd>
```

Command Syntax

```
shutdown
```

Configure detection multiplier

This attribute is multiplied with minimum tx value to get detection time

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy>
  <sr-policy-name>NAME</sr-policy-name>
  <config>
```



```

    <sr-policy-name>WORD</sr-policy-name>
    <lsp-type>sr</lsp-type>
  </config>
  <lsp-type>sr</lsp-type>
<session-attributes>
<intervals>
<interval> <!-- operation="delete"-->
  <detection-multiplier>3</detection-multiplier>
  <config>
    <detection-multiplier>1</detection-multiplier>
    <minimum-tx>3</minimum-tx>
  </config>
  <minimum-tx>3</minimum-tx>
</interval>
</intervals>
</session-attributes>
</sr-policy>
</sr-policies>
</seamless-bfd>

```

Command Syntax

```
min-tx <3-999> multiplier <3-50>
```

Configure discriminator

This attribute is used to configure local discriminator value for reflector

Attribute Name: discriminator

Attribute Type: string

Netconf edit-config payload

```

<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
  <local-discriminators>
    <local-discriminator> <!-- operation="delete"-->
      <discriminator>A.B.C.D</discriminator>
    <config>
      <discriminator>A.B.C.D</discriminator>
    </config>
  </local-discriminator>
</local-discriminators>
</seamless-bfd>

```

Command Syntax

```
s-bfd discriminator A.B.C.D
```

Configure required min rx interval

This attribute is used to configure required minimum rx interval value for reflector

Attribute Name: required-min-rx-interval

Attribute Type: uint32

Attribute Range: 3-999

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
  <local-discriminators>
    <local-discriminator>
      <discriminator>A.B.C.D</discriminator>
      <config>
        <discriminator>A.B.C.D</discriminator>
      </config>
      <required-min-rx-interval>3</required-min-rx-interval> <!-- operation="delete"-->
    </local-discriminator>
  </local-discriminators>
</seamless-bfd>
```

Command Syntax

```
s-bfd discriminator A.B.C.D required-min-rx <3-999>
```

IPI-IGP-TE

Configure delay

Use this attribute to specify a unidirectional, link delay value for the interface

Attribute Name: delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <uni-link>
        <config>
          <delay>1</delay> <!-- operation="delete"-->
        </config>
      </uni-link>
    </interface>
  </interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement static uni-link-delay <1-16777215>
```

Configure delay variation

Use this attribute to specify a unidirectional, link delay variation value for the interface

Attribute Name: delay-variation

Attribute Type: uint32

Attribute Range: 0-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <uni-link>
      <config>
        <delay-variation>0</delay-variation> <!-- operation="delete"-->
      </config>
    </uni-link>
  </interface>
</interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement static uni-delay-variation <0-16777215>
```

Configure loss percentage

Use this attribute to specify a unidirectional, link loss value for the interface

Attribute Name: loss-percentage

Attribute Type: decimal64

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <uni-link>
      <config>
        <loss-percentage>VALUE</loss-percentage> <!-- operation="delete"-->
      </config>
    </uni-link>
  </interface>
</interfaces>
</igp-te>
```

```

</config>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```
loss-measurement static uni-link-loss VALUE
```

Configure loss dynamic

Use this attribute to specify a loss percentage value dynamically for the interface

This command is supported when following feature are enabled TE feature

Attribute Name: loss-dynamic

Attribute Type: empty

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<twamp-loss-parameter>
<config>
  </loss-dynamic><!-- operation="delete"-->
</config>
</twamp-loss-parameter>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```
loss-measurement dynamic
```

Configure name

Use this attribute to specify a loss percentage value dynamically for the interface

This command is supported when following feature are enabled TE feature

Attribute Name: loss-dynamic

Attribute Type: empty

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<irb-twamp-loss-parameter>
<config>
  </loss-dynamic><!-- operation="delete"-->
</config>
</irb-twamp-loss-parameter>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```
loss-measurement dynamic
```

Configure dscp

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

This command is supported when following feature are enabled TE feature

Attribute Name: dscp

Attribute Type: string

Attribute Range: 1-8

Attribute Name: reflector-port

Attribute Type: union

Attribute Name: sender-ip

Attribute Type: union

Attribute Name: sender-port

Attribute Type: union

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<twamp-session-parameters>

```

```

<twamp-session-parameter>
  <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
  <config>
    <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
    <reflector-port>862</reflector-port> <!-- operation="delete"-->
    <sender-ip>CML_HOSTPNAME_T</sender-ip>
    <sender-port>862</sender-port> <!-- operation="delete"-->
  </config>
  <dscp>WORD</dscp> <!-- operation="delete"-->
</twamp-session-parameter>
</twamp-session-parameters>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```

delay-measurement dynamic twamp reflector-ip (A.B.C.D|X:X::X:X|HOSTNAME)
(reflector-port (862|<1025-65535>)|) (sender-ip (A.B.C.D|X:X::X:X|HOSTNAME)|)
(sender-port (862|<1025-65535>)|) (dscp WORD|)

```

Configure reflector ip

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

This command is supported when following feature are enabled TE feature

Attribute Name: dscp

Attribute Type: string

Attribute Range: 1-8

Attribute Name: reflector-port

Attribute Type: union

Attribute Name: sender-ip

Attribute Type: union

Attribute Name: sender-port

Attribute Type: union

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</igp-te>

```

```

<twamp-session-parameters>
<irb-twamp-session-parameter>
  <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
  <config>
    <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
    <reflector-port>862</reflector-port> <!-- operation="delete"-->
    <sender-ip>CML_HOSTPNAME_T</sender-ip>
    <sender-port>862</sender-port> <!-- operation="delete"-->
  </config>
  <dscp>WORD</dscp> <!-- operation="delete"-->
</irb-twamp-session-parameter>
</twamp-session-parameters>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```

delay-measurement dynamic twamp reflector-ip (A.B.C.D|X:X::X:X|HOSTNAME)
(reflector-port (862|<1025-65535>)|) (sender-ip (A.B.C.D|X:X::X:X|HOSTNAME)|)
(sender-port (862|<1025-65535>)|) (dscp WORD|)

```

Configure a bit max

use this attribute to configure a-bit-max

Attribute Name: a-bit-max

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<delay-threshold>
<a-bit> <!-- operation="delete"-->
  <a-bit-max>1</a-bit-max>
  <config>
    <a-bit-max>1</a-bit-max>
    <a-bit-min>1</a-bit-min>
  </config>
  <a-bit-min>1</a-bit-min>
</a-bit>
</delay-threshold>
</uni-link>

```

```

</interface>
</interfaces>
</igp-te>

```

Command Syntax

```
delay-measurement a-bit-delay-threshold min <1-16777215> max <1-16777215>
```

Configure max value

use this attribute to configure max-value

Attribute Name: max-value

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <uni-link>
      <min-max-delay>
        <delay> <!-- operation="delete"-->
          <max-value>1</max-value>
          <config>
            <max-value>1</max-value>
            <min-value>1</min-value>
          </config>
          <min-value>1</min-value>
        </delay>
      </min-max-delay>
    </uni-link>
  </interface>
</interfaces>
</igp-te>

```

Command Syntax

```
delay-measurement static min-max-uni-link-delay <1-16777215> <1-16777215>
```

Configure loss a bit max

use this attribute to configure loss-a-bit-max

Attribute Name: loss-a-bit-max

Attribute Type: decimal64

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<loss>
<threshold> <!-- operation="delete"-->
  <loss-a-bit-max>VALUE</loss-a-bit-max>
  <config>
    <loss-a-bit-max>VALUE</loss-a-bit-max>
    <loss-a-bit-min>VALUE</loss-a-bit-min>
  </config>
  <loss-a-bit-min>VALUE</loss-a-bit-min>
</threshold>
</loss>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```
loss-measurement a-bit-loss-threshold min VALUE max VALUE
```

Configure a bit max range maximum

use this attribute to configure a-bit-max-range-maximum

Attribute Name: a-bit-max-range-maximum

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<uni-link>
<min-max-delay-threshold>
<a-bit> <!-- operation="delete"-->
  <a-bit-max-range-maximum>1</a-bit-max-range-maximum>
  <config>
    <a-bit-max-range-maximum>1</a-bit-max-range-maximum>

```

```

    <a-bit-max-range-minimum>1</a-bit-max-range-minimum>
    <a-bit-min-range-maximum>1</a-bit-min-range-maximum>
    <a-bit-min-range-minimum>1</a-bit-min-range-minimum>
  </config>
  <a-bit-max-range-minimum>1</a-bit-max-range-minimum>
  <a-bit-min-range-maximum>1</a-bit-min-range-maximum>
  <a-bit-min-range-minimum>1</a-bit-min-range-minimum>
</a-bit>
</min-max-delay-threshold>
</uni-link>
</interface>
</interfaces>
</igp-te>

```

Command Syntax

```

delay-measurement a-bit-min-max-delay-threshold min <1-16777215> <1-16777215> max
<1-16777215> <1-16777215>

```

clear twamp measurement interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-128

Netconf RPC payload

```

<twamp-clear-measurement-intf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igp-te">
  <interface-name>IFNAME</interface-name>
</twamp-clear-measurement-intf>

```

Command Syntax

```
clear twamp measurement interface IFNAME
```

clear twamp measurement interface all

Netconf RPC payload

```

<twamp-clear-measurement-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igp-te"/>

```

Command Syntax

```
clear twamp measurement interface all
```

IPI-VRRP

Configure disable virtual router mac address

Use this attribute to enable or disable Virtual MAC (VMAC). This affects all VRRP groups in a router. On a single network segment, multiple VRRP groups can be configured, each using a different VMAC. The use of VMAC addressing allows for faster switchover when a backup router assumes the master role. When this attribute is used to enable a VMAC, the virtual router forwards packets with a special-purpose multicast VMAC address (0:0:5e:0:01:VR_ID). Otherwise, it forwards with interface physical address. The VMAC address is assigned to a router interface at the time the VRRP group is enabled in the router.

Attribute Name: disable-virtual-router-mac-address

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <global>
    <config>
      </disable-virtual-router-mac-address><!-- operation="delete"-->
    </config>
  </global>
</vrrp>
```

Command Syntax

```
vrrp vmac disable
```

Configure vrrp v2 compatible

Use this attribute to enable or disable backward-compatibility feature. When enabled, both VRRPv3 and VRRPv2 interoperation are supported.

Attribute Name: vrrp-v2-compatible

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <global>
    <config>
      </vrrp-v2-compatible><!-- operation="delete"-->
    </config>
  </global>
</vrrp>
```

Command Syntax

```
vrrp compatible-v2 enable
```

Configure ipv4 exclude pseudo header

This command excludes the pseudo-header in IPv4 VRRPv3 checksum calculation on the VRRP group

Attribute Name: ipv4-exclude-pseudo-header

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <global>
    <config>
      </ipv4-exclude-pseudo-header><!-- operation="delete"-->
    </config>
  </global>
</vrrp>
```

Command Syntax

```
vrrp ipv4-exclude-pseudo-header enable
```

Configure options

use this attribute to specify debugging options for VRRP

Attribute Name: options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <debug>
    <config>
      <options>14</options> <!-- operation="delete"-->
    </config>
  </debug>
</vrrp>
```

Command Syntax

```
debug vrrp
```

Configure debug options

use this attribute to specify debugging options for VRRP

Attribute Name: options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <debug>
    <config>
      <options>all</options> <!-- operation="delete"-->
    </config>
  </debug>
</vrrp>
```

```

</config>
</debug>
</vrrp>

```

Command Syntax

```
debug vrrp (all|packet|events|packet send|packet recv)
```

Configure interface name

Use this attribute to configure an VRRP routing process for an interface.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interfaces>
    <interface> <!-- operation="delete"-->
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
    </interface>
  </interfaces>
</vrrp>

```

Command Syntax

```
router vrrp <1-255> IFNAME
```

Configure disable preempt mode

Use this attribute to configure preempt mode. If set to true, the highest priority backup is always the master when the default master is unavailable. If set to false, a higher priority backup does not preempt a lower priority backup which is acting as master

Attribute Name: disable-preempt-mode

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>

```

```

    <virtual-router-id>1</virtual-router-id>
    <config>
        <virtual-router-id>1</virtual-router-id>
    </config>
</interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    </disable-preempt-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
preempt-mode false
```

Configure disable accept mode

Use this attribute to enable accept mode for the session

Attribute Name: disable-accept-mode

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
    <virtual-router-id>1</virtual-router-id>
    <config>
        <virtual-router-id>1</virtual-router-id>
    </config>
</interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    </disable-accept-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
accept-mode false
```

Configure virtual router id

Use this attribute to enable or disable the backward-compatibility feature

Attribute Name: vrrp-v2-compatible

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
        </vrrp-v2-compatible><!-- operation="delete"-->
      </config>
    </interface>
  </interfaces>
</vrrp>
```

Command Syntax

v2-compatible

Configure interface ipv4-exclude-pseudo-header

Use this attribute to excludes the pseudo-header in IPv4 VRRPv3 checksum calculation

Attribute Name: ipv4-exclude-pseudo-header

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
```

```

    <interface-name>WORD</interface-name>
  </config>
  </ipv4-exclude-pseudo-header><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
ipv4-exclude-pseudo-header
```

Configure authentication data

Use this attribute to include authentication simple text

Attribute Name: authentication-data

Attribute Type: string

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interface>
    <interface-name>IFNAME</interface-name>
    <config>
      <interface-name>WORD</interface-name>
    </config>
    <authentication-data>TEXT-STRING</authentication-data> <!--
operation="delete"-->
  </interface>
</interface>
</vrrp>

```

Command Syntax

```
authentication text TEXT-STRING
```

Configure primary ip address

Use this attribute to set the operational-ip address for the virtual router

Attribute Name: primary-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <primary-ip-address>A.B.C.D</primary-ip-address> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
operational-ip A.B.C.D
```

Configure mlag active standby

Use this attribute to set active-standby mlag mode

Attribute Name: mlag-active-standby

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  </mlag-active-standby><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>

```

```
</vrrp>
```

Command Syntax

```
mlag active-standby
```

Configure priority

Use this attribute to configure the VRRP router priority within the virtual router. Priority determines the role that each VRRP router plays and what happens if the master virtual router fails. If a VRRP router owns the IP address of the virtual router and the IP address of the physical interface, this router functions as the master virtual router

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 1-254

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <priority>1</priority> <!-- operation="delete"-->
    </interface>
  </interfaces>
</vrrp>
```

Command Syntax

```
priority <1-254>
```

Configure preempt delay

Use this attribute to set a switch-back delay timer for the master VRRP router. This feature prevents the original master VRRP router from transitioning back to the master state after coming back online until the configured delay timer has expired.

Attribute Name: preempt-delay

Attribute Type: uint32

Attribute Range: 1-500000

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <preempt-delay>1</preempt-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
switch-back-delay <1-500000>
```

Configure advertisement interval

Use this attribute to configure the advertisement interval of a virtual router. This is the length of time, in seconds, between each advertisement sent from the master to its backup(s). The master virtual router sends VRRP advertisements to other VRRP routers in the same group. The advertisements communicate the priority and state of the master virtual router. The VRRP advertisements are encapsulated in IP packets and sent to the multicast address assigned to the VRRP group (224.0.0.18). Advertisements are sent every second by default.

Attribute Name: advertisement-interval

Attribute Type: uint16

Default Value: 100

Attribute Range: 5-4095

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>

```

```

    <interface-name>WORD</interface-name>
  </config>
  <advertisement-interval>5</advertisement-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
advertisement-interval <5-4095>
```

Configure enable

Use this attribute to enable a VRRP session on the router (to make it participate in virtual routing). To make any changes to the VRRP configuration, first disable the router from participating in virtual routing using the disable command

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interface>
    <interface-name>IFNAME</interface-name>
    <config>
      <interface-name>WORD</interface-name>
    </config>
    <protocol-enable>
      <config>
        </enable><!-- operation="delete"-->
      </config>
    </protocol-enable>
  </interface>
</vrrp>

```

Command Syntax

```
enable
```

Configure ip address owner

Use this attribute to set the virtual IP address for the VRRP virtual router as VRRP Owner. This is the IP address used by end hosts to address their default gateway.

Attribute Name: ip-address-owner

Attribute Type: boolean

Attribute Name: virtual-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv4-instances>
    <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv4-instance>
  </ipv4-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <virtual-ip>
        <config>
          <virtual-ip-address>A.B.C.D</virtual-ip-address>
          <ip-address-owner>true</ip-address-owner>
        </config>
      </virtual-ip>
    </interface>
  </interfaces>
</vrrp>
```

Command Syntax

```
virtual-ip A.B.C.D (owner|)
```

Configure interface tracking name

Use this command to enable the VRRP circuit failover feature.

Attribute Name: interface-tracking-name

Attribute Type: string

Attribute Name: priority-decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <interfaces-tracking>
  <interface-tracking> <!-- operation="delete"-->
    <interface-tracking-name>IFNAME</interface-tracking-name>
    <config>
      <interface-tracking-name>WORD</interface-tracking-name>
      <priority-decrement>1</priority-decrement>
    </config>
  </interface-tracking>
</interfaces-tracking>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
circuit-failover IFNAME <1-253>
```

Configure tracking id

Use this command to enable the VRRP object tracking feature.

This command is supported when following feature are enabled HAVE_OBJ_TRACKING

Attribute Name: tracking-id

Attribute Type: uint16

Attribute Name: decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
  <virtual-router-id>1</virtual-router-id>

```

```

    <config>
      <virtual-router-id>1</virtual-router-id>
    </config>
  </interfaces>
</interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <objects-tracking>
    <object-tracking> <!-- operation="delete"-->
      <tracking-id>0</tracking-id>
      <config>
        <tracking-id>1</tracking-id>
        <decrement>1</decrement>
      </config>
    </object-tracking>
  </objects-tracking>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>

```

Command Syntax

```
track <0-65535> decrement <1-253>
```

Configure interfaces interface-name

Use this attribute to configure an VRRP routing process for an interface.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </interfaces>
  </interface> <!-- operation="delete"-->
    <interface-name>IFNAME</interface-name>
    <config>
      <interface-name>WORD</interface-name>
    </config>
  </interface>
</interfaces>

```

```

</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
router ipv6 vrrp <1-255> IFNAME
```

Configure interface disable-preempt-mode

Use this attribute to configure preempt mode. If set to true, the highest priority backup is always the master when the default master is unavailable. If set to false, a higher priority backup does not preempt a lower priority backup which is acting as master

Attribute Name: disable-preempt-mode

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv6-instance>
  </ipv6-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
        </disable-preempt-mode><!-- operation="delete"-->
      </config>
    </interface>
  </interfaces>
</vrrp>

```

Command Syntax

```
preempt-mode false
```

Configure interface disable-accept-mode

Use this attribute to enable accept mode for the session

Attribute Name: disable-accept-mode

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>

```



```

<ipv6-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  </disable-accept-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
accept-mode false
```

Configure interface primary-ip-address

Use this attribute to set the operational-ip address for the virtual router

Attribute Name: primary-ip-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <primary-ip-address>X:X::X:X</primary-ip-address> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
operational-ipv6 X:X::X:X
```

Configure interface priority

Use this attribute to configure the VRRP router priority within the virtual router. Priority determines the role that each VRRP router plays and what happens if the master virtual router fails. If a VRRP router owns the IP address of the virtual router and the IP address of the physical interface, this router functions as the master virtual router

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 1-254

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv6-instance>
  </ipv6-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
        <priority>1</priority> <!-- operation="delete"-->
      </config>
    </interface>
  </interfaces>
</vrrp>
```

Command Syntax

```
priority <1-254>
```

Configure interface preempt-delay

Use this attribute to set a switch-back delay timer for the master VRRP router. This feature prevents the original master VRRP router from transitioning back to the master state after coming back online until the configured delay timer has expired.

Attribute Name: preempt-delay

Attribute Type: uint32

Attribute Range: 1-500000

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
```

```

<ipv6-instances>
<ipv6-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <preempt-delay>1</preempt-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
switch-back-delay <1-500000>
```

Configure interface advertisement-interval

Use this attribute to configure the advertisement interval of a virtual router. This is the length of time, in seconds, between each advertisement sent from the master to its backup(s). The master virtual router sends VRRP advertisements to other VRRP routers in the same group. The advertisements communicate the priority and state of the master virtual router. The VRRP advertisements are encapsulated in IP packets and sent to the multicast address assigned to the VRRP group (224.0.0.18). Advertisements are sent every second by default.

Attribute Name: advertisement-interval

Attribute Type: uint16

Default Value: 100

Attribute Range: 5-4095

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
  <virtual-router-id>1</virtual-router-id>
  <config>
    <virtual-router-id>1</virtual-router-id>
  </config>
</interfaces>
<interface>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <advertisement-interval>5</advertisement-interval> <!-- operation="delete"-->

```

```

</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
advertisement-interval <5-4095>
```

Configure protocol-enable enable

Use this attribute to enable a VRRP session on the router (to make it participate in virtual routing). To make any changes to the VRRP configuration, first disable the router from participating in virtual routing using the disable command

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv6-instance>
  </ipv6-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <protocol-enable>
        <config>
          </enable><!-- operation="delete"-->
        </config>
      </protocol-enable>
    </interface>
  </interfaces>
</vrrp>

```

Command Syntax

```
enable
```

Configure virtual ip address

VRRP Virtual IPV6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: virtual-ip-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv6-instance>
  </ipv6-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <virtual-ip-addresses>
        <virtual-ip-address> <!-- operation="delete"-->
          <virtual-ip-address>X:X::X:X</virtual-ip-address>
          <config>
            <virtual-ip-address>X:X::X:X</virtual-ip-address>
          </config>
        </virtual-ip-address>
      </virtual-ip-addresses>
    </interface>
  </interfaces>
</vrrp>
```

Command Syntax

```
virtual-ipv6 X:X::X:X
```

Configure virtual-ip-address ip-address-owner

Use this attribute to set the virtual IP address for the VRRP virtual router as VRRP Owner. This is the IP address used by end hosts to address their default gateway.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ip-address-owner

Attribute Type: boolean

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
```

```

    <config>
      <virtual-router-id>1</virtual-router-id>
    </config>
  </interfaces>
  <interface>
    <interface-name>IFNAME</interface-name>
    <config>
      <interface-name>WORD</interface-name>
    </config>
    <virtual-ip-addresses>
    <virtual-ip-address>
      <virtual-ip-address>X:X::X:X</virtual-ip-address>
      <config>
        <virtual-ip-address>X:X::X:X</virtual-ip-address>
      </config>
      <ip-address-owner>true</ip-address-owner> <!-- operation="delete"-->
    </virtual-ip-address>
  </virtual-ip-addresses>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
virtual-ipv6 X:X::X:X (owner|)
```

Configure priority decrement

Use this command to enable the VRRP circuit failover feature.

Attribute Name: interface-tracking-name

Attribute Type: string

Attribute Name: priority-decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
  <ipv6-instance>
    <virtual-router-id>1</virtual-router-id>
    <config>
      <virtual-router-id>1</virtual-router-id>
    </config>
  </ipv6-instance>
  </ipv6-instances>
  <interface>
    <interface-name>IFNAME</interface-name>
    <config>

```

```

    <interface-name>WORD</interface-name>
  </config>
</interfaces-tracking>
<interface-tracking> <!-- operation="delete"-->
  <interface-tracking-name>IFNAME</interface-tracking-name>
  <config>
    <interface-tracking-name>WORD</interface-tracking-name>
    <priority-decrement>1</priority-decrement>
  </config>
</interface-tracking>
</interfaces-tracking>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>

```

Command Syntax

```
circuit-failover IFNAME <1-253>
```

Configure decrement

Use this command to enable the VRRP object tracking feature.

This command is supported when following feature are enabled HAVE_OBJ_TRACKING

Attribute Name: tracking-id

Attribute Type: uint16

Attribute Name: decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```

<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
  <ipv6-instances>
    <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
        <virtual-router-id>1</virtual-router-id>
      </config>
    </ipv6-instance>
  </ipv6-instances>
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <objects-tracking>
        <object-tracking> <!-- operation="delete"-->
          <tracking-id>0</tracking-id>
        </object-tracking>
      </objects-tracking>
    </interface>
  </interfaces>
</vrrp>

```

```
        <tracking-id>1</tracking-id>
        <decrement>1</decrement>
    </config>
</object-tracking>
</objects-tracking>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
track <0-65535> decrement <1-253>
```

snmp restart vrrp

Netconf RPC payload

```
<vrrp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
snmp restart vrrp
```

clear vrrp global statistics

Netconf RPC payload

```
<vrrp-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
clear vrrp global statistics
```

clear vrrp ipv4 statistics

Netconf RPC payload

```
<vrrp-clear-ipv4-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
clear vrrp ipv4 statistics
```

clear vrrp ipv6 statistics

Netconf RPC payload

```
<vrrp-clear-ipv6-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
clear vrrp ipv6 statistics
```

clear vrrp ipv4 statistics <1-255> IFNAME

Attribute Name: vrrp-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<vrrp-clear-session-ipv4-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vrrp">
  <vrrp-id>1</vrrp-id>
  <interface-name>IFNAME</interface-name>
</vrrp-clear-session-ipv4-statistics>
```

Command Syntax

```
clear vrrp ipv4 statistics <1-255> IFNAME
```

clear vrrp ipv6 statistics <1-255> IFNAME

Attribute Name: vrrp-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<vrrp-clear-session-ipv6-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vrrp">
  <vrrp-id>1</vrrp-id>
  <interface-name>IFNAME</interface-name>
</vrrp-clear-session-ipv6-statistics>
```

Command Syntax

```
clear vrrp ipv6 statistics <1-255> IFNAME
```

debug vrrp

Netconf RPC payload

```
<vrrp-terminal-debug-all-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vrrp"/>
```

Command Syntax

```
debug vrrp
```

no debug vrrp

Netconf RPC payload

```
<vrrp-terminal-debug-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
no debug vrrp
```

debug vrrp (all|packet|events|packet send|packet recv)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf RPC payload

```
<vrrp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">  
<terminal-debug-options>all</terminal-debug-options>  
</vrrp-terminal-debug-on>
```

Command Syntax

```
debug vrrp (all|packet|events|packet send|packet recv)
```

no debug vrrp (all|packet|events|packet send|packet recv)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf RPC payload

```
<vrrp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">  
<terminal-debug-options>all</terminal-debug-options>  
</vrrp-terminal-debug-off>
```

Command Syntax

```
no debug vrrp (all|packet|events|packet send|packet recv)
```

IPI-PREFIX-LIST

Configure prefix list name

prefix-list name

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix> <!-- operation="delete"-->
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
</prefixes>
```

Command Syntax

```
ip prefix-list WORD
```

Configure prefix list type

prefix-list name

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix> <!-- operation="delete"-->
    <prefix-list-type>ipv6</prefix-list-type>
    <config>
      <prefix-list-type>ipv6</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
</prefixes>
```

Command Syntax

```
ipv6 prefix-list WORD
```

Configure description

Up to 80 characters describing this prefix-list

Attribute Name: description

Attribute Type: string

Attribute Range: 1-80

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
```

```

<prefix>
  <prefix-list-type>ip</prefix-list-type>
  <config>
    <prefix-list-type>ip</prefix-list-type>
    <prefix-list-name>WORD</prefix-list-name>
  </config>
  <prefix-list-name>WORD</prefix-list-name>
  <description>LINE</description> <!-- operation="delete"-->
</prefix>
</prefixes>

```

Command Syntax

```
description LINE
```

Configure prefix addr

Either IP address mask and length of the prefix list mask or Take all packets of any length. This parameter is the same as using 0.0.0.0/0 le 32 for A.B.C.D/M.

Attribute Name: prefix-addr

Attribute Type: union

Netconf edit-config payload

```

<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
          <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
          </config>
          <action>deny</action>
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>

```

```
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) any
```

Configure sequence id

Either IP address mask and length of the prefix list mask or Take all packets of any length. This parameter is the same as using 0.0.0.0/0 le 32 for A.B.C.D/M.

Attribute Name: prefix-addr

Attribute Type: enum (any)

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
          <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
          </config>
          <action>deny</action>
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit)
```

Configure maximum prefix length match

Maximum prefix length match

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
          <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
          </config>
          <action>deny</action>
          <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-32> le <0-32>
```

Configure minimum prefix length match

Minimum prefix length match

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
          <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
          </config>
          <action>deny</action>
          <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-32> ge <0-32>
```

Configure action

Minimum prefix length match

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
          <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
          </config>
          <action>deny</action>
          <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-32>
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
```



```

        <prefix-list-type>ip</prefix-list-type>
        <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
<prefix-entries>
<prefix-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <entry>
        <prefix-addr>any</prefix-addr>
        <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
        </config>
        <action>deny</action>
        <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
    </entry>
</ipv4>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>

```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-32>
```

Configure exact prefix length match

Exact prefix length match

Attribute Name: exact-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```

<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
</prefixes>

```

```

<config>
  <sequence-id>1</sequence-id>
</config>
<ipv4>
<entry>
  <prefix-addr>any</prefix-addr>
  <config>
    <prefix-addr>any</prefix-addr>
    <action>deny</action>
  </config>
  <action>deny</action>
  <exact-prefix-length-match>0</exact-prefix-length-match> <!--
operation="delete"-->
</entry>
</ipv4>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>

```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) eq <0-32>
```

Configure ipv6 prefix addr

Either IPv6 address mask and length of the prefix list mask or This is the same as specifying ::/0 for X::X::X/M

This command is supported when following feature are enabled ipv6 feature

Attribute Name: ipv6-prefix-addr

Attribute Type: union

Netconf edit-config payload

```

<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix>
  <prefix-list-type>ip</prefix-list-type>
  <config>
    <prefix-list-type>ip</prefix-list-type>
    <prefix-list-name>WORD</prefix-list-name>
  </config>
  <prefix-list-name>WORD</prefix-list-name>
</prefix-entries>
<prefix-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv6>
  <entry> <!-- operation="delete"-->
    <ipv6-prefix-addr>any</ipv6-prefix-addr>
  </config>

```

```

        <ipv6-prefix-addr>any</ipv6-prefix-addr>
        <action>deny</action>
    </config>
    <action>deny</action>
</entry>
</ipv6>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>

```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) any
```

Configure ipv6 ipv6-prefix-addr

Either IPv6 address mask and length of the prefix list mask or This is the same as specifying ::/0 for X:X::X:X/M

This command is supported when following feature are enabled ipv6 feature

Attribute Name: ipv6-prefix-addr

Attribute Type: union

Netconf edit-config payload

```

<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix-entries>
  <prefix-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv6>
      <entry> <!-- operation="delete"-->
        <ipv6-prefix-addr>any</ipv6-prefix-addr>
        <config>
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <action>deny</action>
        </config>
        <action>deny</action>
      </entry>
    </ipv6>
  </prefix-entry>
</prefix-entries>
</prefix>

```

```
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) X:X::X:X/M
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv6>
        <entry>
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
          </config>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
          </entry>
        </ipv6>
      </prefix-entry>
    </prefix-entries>
  </prefixes>
```

```
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-128> le <0-128>
```

Configure entry minimum-prefix-length-match

Minimum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv6>
        <entry>
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
          </config>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
          </entry>
        </ipv6>
      </prefix-entry>
    </prefix-entries>
  </prefixes>
```

```
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-128> ge <0-128>
```

Configure entry minimum-prefix-length-match

Minimum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv6>
        <entry>
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
          </config>
          <action>deny</action>
          <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
        </entry>
      </ipv6>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-128>
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
  <prefix-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv6>
        <entry>
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
          </config>
          <action>deny</action>
          <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
        </entry>
      </ipv6>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-128>
```

Configure entry exact-prefix-length-match

Exact prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: exact-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
  </prefix>
</prefixes>
<prefix-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv6>
    <entry>
      <ipv6-prefix-addr>any</ipv6-prefix-addr>
      <config>
        <ipv6-prefix-addr>any</ipv6-prefix-addr>
        <action>deny</action>
      </config>
      <action>deny</action>
      <exact-prefix-length-match>0</exact-prefix-length-match> <!--
operation="delete"-->
    </entry>
  </ipv6>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) eq <0-128>
```

Configure disable ipv4 sequence display

Use this attribute to configure prefix list sequence number. Include and exclude sequence numbers in nonvolatile generation (NVGEN).

Attribute Name: disable-ipv4-sequence-display

Attribute Type: empty

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <global>
    <config>
```



```
</disable-ipv4-sequence-display><!-- operation="delete"-->
</config>
</global>
</prefixes>
```

Command Syntax

```
no ip prefix-list sequence-number
```

Configure disable ipv6 sequence display

Use this attribute to configure prefix list sequence number. Include and exclude sequence numbers in nonvolatile generation (NVGEN).

Attribute Name: disable-ipv6-sequence-display

Attribute Type: empty

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<global>
<config>
  </disable-ipv6-sequence-display><!-- operation="delete"-->
</config>
</global>
</prefixes>
```

Command Syntax

```
no ipv6 prefix-list sequence-number
```

clear ip prefix-list

Netconf RPC payload

```
<clear-prefix-list-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list"/>
```

Command Syntax

```
clear ip prefix-list
```

clear ipv6 prefix-list

Netconf RPC payload

```
<clear-prefix-list-ipv6-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list"/>
```

Command Syntax

```
clear ipv6 prefix-list
```

clear ip prefix-list WORD (A.B.C.D/M|)

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-prefix-list xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix-list-name>WORD</prefix-list-name>
  <prefix>A.B.C.D/M</prefix>
</clear-ipv4-prefix-list>
```

Command Syntax

```
clear ip prefix-list WORD (A.B.C.D/M|)
```

clear ipv6 prefix-list WORD (X:X::X:X/M|)

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-prefix-list xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <prefix-list-name>WORD</prefix-list-name>
  <prefix>X:X::X:X/M</prefix>
</clear-ipv6-prefix-list>
```

Command Syntax

```
clear ipv6 prefix-list WORD (X:X::X:X/M|)
```

IPI-PREFIX-GROUP

Configure name

Use this attribute to set the prefix-group name.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
  </prefix-group>
</prefix-groups>
```

Command Syntax

```
ip prefix-group WORD
```

Configure type

Use this attribute to set the prefix-group name.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
      <name>WORD</name>
      <type>ipv6</type>
    </config>
    <type>ipv6</type>
  </prefix-group>
</prefix-groups>
```

Command Syntax

```
ipv6 prefix-group WORD
```

Configure description

Use this attribute to set a description to the prefix-group.

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group>
    <name>WORD</name>
```

```

    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
    <description>LINE</description> <!-- operation="delete"-->
  </prefix-group>
</prefix-groups>

```

Command Syntax

```
description LINE
```

Configure ipv4 entry

Use this attribute to set the IPv4 prefix value.

Attribute Name: ipv4-entry

Attribute Type: string

Netconf edit-config payload

```

<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group>
    <name>WORD</name>
    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
  <ipv4-entries>
    <config>
      <ipv4-entry>A.B.C.D/M</ipv4-entry> <!-- operation="delete"-->
    </config>
  </ipv4-entries>
</prefix-group>
</prefix-groups>

```

Command Syntax

```
A.B.C.D/M
```

Configure ipv4 match xpath entry

Use this attribute to dynamically set an IPv4 prefix value using XPath

Attribute Name: ipv4-match-xpath-entry

Attribute Type: string

Netconf edit-config payload

```

<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group>
    <name>WORD</name>

```

```

    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
  <ipv4-entries>
    <config>
      <ipv4-match-xpath-entry>WORD</ipv4-match-xpath-entry> <!--
operation="delete"-->
    </config>
  </ipv4-entries>
</prefix-group>
</prefix-groups>

```

Command Syntax

```
match-xpath WORD
```

Configure ipv6 entry

Use this attribute to set the IPv6 prefix value.

This command is supported when following feature are enabled IPv6 feature

Attribute Name: ipv6-entry

Attribute Type: string

Netconf edit-config payload

```

<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group>
    <name>WORD</name>
    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
  <ipv6-entries>
    <config>
      <ipv6-entry>X:X::X:X/M</ipv6-entry> <!-- operation="delete"-->
    </config>
  </ipv6-entries>
</prefix-group>
</prefix-groups>

```

Command Syntax

```
X:X::X:X/M
```

Configure ipv6 match xpath entry

Use this attribute to dynamically set an IPv6 prefix value using XPath

This command is supported when following feature are enabled IPv6 feature

Attribute Name: ipv6-match-xpath-entry

Attribute Type: string

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
  <prefix-group>
    <name>WORD</name>
    <config>
      <name>WORD</name>
      <type>ip</type>
    </config>
    <type>ip</type>
  <ipv6-entries>
    <config>
      <ipv6-match-xpath-entry>WORD</ipv6-match-xpath-entry> <!--
operation="delete"-->
    </config>
  </ipv6-entries>
</prefix-group>
</prefix-groups>
```

Command Syntax

```
match-xpath WORD
```

IPI-ISIS

Configure vrf name

VRF Name to associate with this instance

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <vrf-name>WORD</vrf-name>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
router isis WORD WORD
```

Configure instance

Use this attribute to initiate an ISIS routing instance. Configure at least one NET to start routing.

Attribute Name: instance

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance> <!-- operation="delete"-->
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
        <vrf-name>WORD</vrf-name>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
router isis WORD
```

Configure enable cspf capability

Use this attribute to enable the constrained shortest path first (CSPF) feature in the ISIS module. CSPF calculates optimum explicit route (ER), using Traffic Engineering Database and (TED) and pre-existing Label Switched Path (LSP). The resulting ER is used by a signaling protocol (RSVP-TE) to set up LSPs.

Attribute Name: enable-cspf-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-cspf-capability><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
enable-cspf
```

Configure disable gr capability

Use this attribute to enable the GR

Attribute Name: disable-gr-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </disable-gr-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no capability restart graceful
```

Configure isis-instance disable-gr-capability

Use this attribute to enable the GR

Attribute Name: disable-gr-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </disable-gr-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no capability restart
```

Configure disable adjacency check

Use this attribute to configure the policy of adjacency based on the protocol related TLVs in the ISIS Hello packet. ISIS checks adjacency with protocol related TLVs including Protocols Supported TLV or IP Interface Address TLV by default. The command with no parameter disables this check.

Attribute Name: disable-adjacency-check

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </disable-adjacency-check><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no adjacency-check
```

Configure enable backup srlg disjoint path

Use this attribute to enable/disable default algorithm's SRLG-disjoint backup path calculation

Attribute Name: enable-backup-srlg-disjoint-path

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </enable-backup-srlg-disjoint-path><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability backup srlg-disjoint path
```

Configure enable backup srlg disjoint forced

Use this attribute to enable/disable default algorithm's forced SRLG-disjoint backup path calculation

Attribute Name: enable-backup-srlg-disjoint-forced

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-backup-srlg-disjoint-forced><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
capability backup srlg-disjoint forced
```

Configure disable asla usage flex algo

Use this attribute to configure the policy of ASLA Link attributes usage in ASLA Sub-TLV (RFC-8919) for Flexible Algorithm. ISIS uses ASLA Link attributes by default, i.e. does not use legacy link attributes. The command with no keyword disables Flex-Algo ASLA usage, i.e. enables advertisement of legacy bit in ASLA. Command without no keyword enables ASLA Flex-Algo advertisement, i.e. disables legacy bit in ASLA sub-tlv.

Attribute Name: disable-asla-usage-flex-algo

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </disable-asla-usage-flex-algo><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
no asla flex-algo advertise
```

Configure enable asla strict flex algo

Use this attribute to configure the policy of strict ASLA Link attributes usage for Flexible Algorithm path calculations. ISIS uses ASLA Link attributes by default, may also use legacy TE Link attributes. The command with no keyword disables this usage.

Attribute Name: enable-asla-strict-flex-algo

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </enable-asla-strict-flex-algo><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
asla flex-algo strict
```

Configure enable asla usage all apps

Use this attribute to configure the policy of ASLA Link attributes usage for all applications for path calculations. ISIS does not use ASLA Link attributes for all applications by default. The command with no keyword disables this usage.

Attribute Name: enable-asla-usage-all-apps

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </enable-asla-usage-all-apps><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
asla all-apps advertise
```

Configure enable flex algo routing

Use this attribute to enable/disable routing of Flexible Algorithm in LSP TX/RX and CSPF path calculations

Attribute Name: enable-flex-algo-routing

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-flex-algo-routing><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo routing
```

Configure enable flex algo readvertise

Use this attribute to enable/disable readvertisement of Flexible Algorithm (FAD) from ISIS Level-2 to Level-1 routing area

Attribute Name: enable-flex-algo-readvertise

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-flex-algo-readvertise><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo readvertise
```

Configure disable flex algo cspf

Use this attribute to enable/disable CPSF constrained routing of Flexible Algorithm in SPF path calculations

Attribute Name: disable-flex-algo-cspf

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </disable-flex-algo-cspf><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
no capability flex-algo cspf
```

Configure enable flex algo adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific Adjacency-SID support

Attribute Name: enable-flex-algo-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-flex-algo-adjacency-sid><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo adjacency-sid
```

Configure enable flex algo strict adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific strict Adjacency-SID support

Attribute Name: enable-flex-algo-strict-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </enable-flex-algo-strict-adjacency-sid><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo strict adjacency-sid
```

Configure enable flex algo backup adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific backup Adjacency-SID support

Attribute Name: enable-flex-algo-backup-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  </enable-flex-algo-backup-adjacency-sid><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo backup adjacency-sid
```

Configure enable flex algo qos policy

Use this attribute to enable/disable Flexible Algorithm specific QoS policy support

Attribute Name: enable-flex-algo-qos-policy

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
```

```

    <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</enable-flex-algo-qos-policy><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
capability flex-algo qos-policy
```

Configure enable flex algo bgp ls

Use this attribute to enable/disable advertisement of Flexible Algorithm TLV(s)/Sub-TLV(s) in BGP Link-state packets

Attribute Name: enable-flex-algo-bgp-ls

Attribute Type: uint8

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-flex-algo-bgp-ls><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>

```

Command Syntax

```
capability flex-algo bgp-ls
```

Configure authentication send only

Use this attribute to set the send-only option at the instance level. Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>

```

```

<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <authentication-send-only>3</authentication-send-only> <!-- operation="delete"-->
>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
authentication send-only level-1
```

Configure isis-instance authentication-send-only

Use this attribute to set the send-only option at the instance level. Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <authentication-send-only>3</authentication-send-only> <!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>

```

Command Syntax

```
authentication send-only level-2
```

Configure distribute bgp ls

Use this attribute to distribute linkstate and TE Database to BGP

Attribute Name: distribute-bgp-ls

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <distribute-bgp-ls>0</distribute-bgp-ls> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distribute bgp-ls
```

Configure isis-instance distribute-bgp-ls

Use this attribute to distribute linkstate and TE Database to BGP

Attribute Name: distribute-bgp-ls

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <distribute-bgp-ls>5</distribute-bgp-ls> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distribute bgp-ls throttle <5-20>
```

Configure distance

Use this attribute to set the administrative distance for all IPv4 routes.

Attribute Name: distance

Attribute Type: uint8

Default Value: 115

Attribute Range: 1-255

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <distance>1</distance> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
distance <1-255>
```

Configure dynamic host name

Use this attribute to configure the hostname to be advertised for an ISIS instance using the dynamic hostname exchange mechanism (RFC 2763) and system-ID-to-hostname translation. This command configures a hostname to be used for the Dynamic Hostname Exchange Mechanism and System-ID to hostname translation. Use the routing area tag as the hostname, not the router's global hostname

Attribute Name: dynamic-host-name

Attribute Type: enum (dynamic-hostname|area-tag)

Default Value: dynamic-hostname

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <dynamic-host-name>dynamic-hostname</dynamic-host-name> <!-- operation="delete"-->
->
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
dynamic-hostname (area-tag|)
```

Configure ignore lsp errors

Use this attribute to ignore LSPs with checksum errors. By default, ISIS validates checksum for LSP whenever it receives LSPs and if the checksum has an error, the LSP will be dropped. Configuring this command to ignore the LSP checksum error and treat it as if checksum is passed.

Attribute Name: ignore-lsp-errors

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </ignore-lsp-errors><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
ignore-lsp-errors
```

Configure lfa hold timer

LFA terminate-hold-on interval

Attribute Name: lfa-hold-timer

Attribute Type: int32

Default Value: 1000

Attribute Range: 100-100000

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <lfa-hold-timer>100</lfa-hold-timer> <!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
fast-reroute terminate-hold-on interval <100-100000>
```

Configure level capability

Use this attribute to set the IS to the specified level of routing. Changing is-type brings down, then brings up a particular level of routing. There is a limitation: Only one ISIS instance can run Level-2 routing (either Level-2 only IS, or Level-1-2 IS)

Attribute Name: level-capability

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <level-capability>level-1-2</level-capability> <!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
is-type (level-1|level-2-only|level-1-2)
```

Configure isis-instance authentication-send-only

Use this attribute to set the send-only option at the instance level. Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <authentication-send-only>level-1-2</authentication-send-only> <!--
operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
authentication send-only (level-1-only|level-2-only|level-1-2|)
```

Configure incremental spf levels

Use this attribute to enable incremental SPF for a routing process

Attribute Name: incremental-spf-levels

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <incremental-spf-levels>level-1-2</incremental-spf-levels> <!--
operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
ispf (level-1|level-2-only|level-1-2|)
```

Configure priority tag

Use this attribute to set a high priority tag value

Attribute Name: priority-tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <priority-tag>1</priority-tag> <!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
ip route high-priority tag <1-4294967295>
```

Configure isis-instance enable-cspf-capability

Use this attribute to enable the constrained shortest path first (CSPF) feature in the ISIS module. CSPF calculates optimum explicit route (ER), using Traffic Engineering Database and (TED) and pre-existing Label Switched Path (LSP). The resulting ER is used by a signaling protocol (RSVP-TE) to set up LSPs.

Attribute Name: enable-cspf-capability

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-cspf-capability><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
capability cspf
```

Configure enable bfd all interfaces

Use this attribute to enable the Bidirectional Forwarding Detection (BFD) feature on the interfaces enabled with this ISIS instance. This command sets BFD fall-over check for all the neighbors under specified process.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      </enable-bfd-all-interfaces><!-- operation="delete"-->
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
bfd all-interfaces
```

Configure maximum area addresses

Use this attribute to set the maximum number of ISIS areas that can be configured on this router with the net command. By default, ISIS permits a maximum of three areas that can be defined on a router.

Attribute Name: maximum-area-addresses

Attribute Type: uint8

Default Value: 3

Attribute Range: 3-254

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <maximum-area-addresses>3</maximum-area-addresses> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
max-area-address <3-254>
```

Configure context name

Use this attribute to set the SNMP context name for ISIS instance.

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <context-name>WORD</context-name> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
snmp context-name WORD
```

Configure area password

Use this attribute to set the authentication password for the Level-1 area and to set authentication on Level-1 SNP PDUs. This command enables authentication when receiving and sending LSP and SNP PDU in Level-1 areas. Area password must be the same for all the ISIS routers in the same area

Attribute Name: area-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <area-authentication>
      <config>
        <area-password>WORD</area-password>
      </config>
    </area-authentication>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
area-password WORD
```

Configure sequence number packet

Use this attribute to set the authentication password for the Level-1 area and to set authentication on Level-1 SNP PDUs. This command enables authentication when receiving and sending LSP and SNP PDU in Level-1 areas. Area password must be the same for all the ISIS routers in the same area

Attribute Name: sequence-number-packet

Attribute Type: enum (send-only|validate)

Attribute Name: area-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <area-authentication>
      <config>
```



```

        <area-password>WORD</area-password> <!-- operation="delete"-->
        <sequence-number-packet>send-only</sequence-number-packet> <!--
operation="delete"-->
    </config>
</area-authentication>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
area-password WORD authenticate snp (send-only|validate)
```

Configure net

Use this attribute to add a Network Entity Title (NET) for the instance. On a router running ISIS, a NET can be 8 to 20 bytes in length. The last byte is always the n-selector, and must be zero. The n-selector indicates no transport entity, and means that the packet is for the routing software of the system. The six bytes directly preceding the n-selector are the system ID. The system ID length is a fixed size and cannot be changed. The system ID must be unique throughout each area (Level 1) and throughout the backbone (Level 2). The bytes preceding the system ID are the area ID, which can be from 1 - 13 bytes in length. By default, a maximum of three NETs per router are allowed with a different area ID but the system ID should be the same for all NETs. You can increase the number of area IDs per system ID with the max-area-address command.

Attribute Name: net

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <network-entity-title>
      <config>
        <net>NET</net> <!-- operation="delete"-->
      </config>
    </network-entity-title>
  </isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
net NET
```

Configure domain password

Use this attribute to set the authentication password for the Level-2 domain, and optionally, the authentication password on Level-2 SNP PDUs. Configuring this command to enable authentication when receiving and sending LSP and SNP PDU in Level-2 domain. Domain password must be the same in Level-2 domain.

Attribute Name: domain-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <domain-authentication>
      <config>
        <domain-password>WORD</domain-password>
      </config>
    </domain-authentication>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
domain password WORD
```

Configure domain snp

Use this attribute to set the authentication password for the Level-2 domain, and optionally, the authentication password on Level-2 SNP PDUs. Configuring this command to enable authentication when receiving and sending LSP and SNP PDU in Level-2 domain. Domain password must be the same in Level-2 domain.

Attribute Name: domain-snp

Attribute Type: enum (send-only|validate)

Attribute Name: domain-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <domain-authentication>
      <config>
        <domain-password>WORD</domain-password> <!-- operation="delete"-->
        <domain-snp>send-only</domain-snp> <!-- operation="delete"-->
      </config>
    </domain-authentication>
  </isis-instance>
```

```
</isis-instances>
</isis>
```

Command Syntax

```
domain password WORD authenticate snp (send-only|validate)
```

Configure style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</metric>
<config>
  <level-number>level-1-2</level-number> <!-- operation="delete"-->
  <style>1</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (narrow) level-1-2
```

Configure level number

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</metric>
<config>
  <level-number>level-1-2</level-number> <!-- operation="delete"-->
  <style>2</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
metric-style (wide) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</metric>
<config>
  <level-number>level-1-2</level-number> <!-- operation="delete"-->
  <style>3</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
metric-style (transition) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <metric>
    <config>
      <level-number>level-1-2</level-number> <!-- operation="delete"-->
      <style>4</style> <!-- operation="delete"-->
    </config>
  </metric>
</isis>
```

Command Syntax

```
metric-style (narrow transition) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
```

```

<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</metric>
<config>
  <level-number>level-1-2</level-number> <!-- operation="delete"-->
  <style>5</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
metric-style (wide transition) level-1-2
```

Configure metric level-number

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</metric>
<config>
  <style>narrow</style> <!-- operation="delete"-->
  <level-number>level-1-2</level-number> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
metric-style (narrow|wide|transition|narrow transition|wide transition) (level-1|level-2|)
```

Configure lsp refresh interval

Use this attribute to set the LSP refresh interval. IP Infusion Inc. recommends making the lsp-refresh-interval smaller than max-lsp-lifetime value.

Attribute Name: lsp-refresh-interval

Attribute Type: uint16

Default Value: 900

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<timers>
<config>
  <lsp-refresh-interval>1</lsp-refresh-interval> <!-- operation="delete"-->
</config>
</timers>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
lsp-refresh-interval <1-65535>
```

Configure lsp lifetime interval

Use this attribute to set the maximum LSP lifetime. You must set max-lsp-lifetime greater than lsp-refreshinterval.

Attribute Name: lsp-lifetime-interval

Attribute Type: uint16

Default Value: 1200

Attribute Range: 350-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<timers>
<config>
```

```

        <lsp-lifetime-interval>350</lsp-lifetime-interval> <!-- operation="delete"-->
</config>
</timers>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
max-lsp-lifetime <350-65535>
```

Configure ipv4 router id

Use this attribute to configure the traffic engineering stable IP address for a system.

Attribute Name: ipv4-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
mpls traffic-eng router-id A.B.C.D
```

Configure ipv6 router id

Use this attribute to configure the traffic engineering stable IPv6 address for a system.

Attribute Name: ipv6-router-id

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>

```



```

        <instance>WORD</instance>
    </config>
</traffic-engineering>
<config>
    <ipv6-router-id>X:X::X:X</ipv6-router-id> <!-- operation="delete"-->
</config>
</traffic-engineering>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
mpls traffic-eng ipv6 router-id X:X::X:X
```

Configure enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv6>
    <level-1-into-2-redistributes>
      <redistribute-level-1-into-2> <!-- operation="delete"-->
        </enable>
      </redistribute-level-1-into-2>
    </level-1-into-2-redistributes>
  </address-family-ipv6>
</isis>

```

Command Syntax

```
redistribute isis level-1 into level-2
```

Configure level 1 acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-1-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2>
  </enable>
  <config>
    </enable><!-- operation="delete"-->
  </config>
    <level-1-acl>WORD</level-1-acl> <!-- operation="delete"-->
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-1 into level-2 distribute-list WORD
```

Configure level-2-into-1-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
```

```

<address-family-ipv6>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1> <!-- operation="delete"-->
  </enable>
  <config>
    </enable>
  </config>
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
redistribute isis level-2 into level-1
```

Configure level 2 acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-2-acl

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1>
  </enable>
  <config>
    </enable><!-- operation="delete"-->
  </config>
  <level-2-acl>WORD</level-2-acl> <!-- operation="delete"-->
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
redistribute isis level-2 into level-1 distribute-list WORD
```

Configure originate

Use this attribute to set originate reachability information to Default destination into LSP. There is no default information in Level-2 domain by default, while Level-1 router calculates default to L1L2 route during SPF calculation. This command enables to originate default route into Level-2 domain.

Attribute Name: originate

Attribute Type: enum (originate|originate level-1|originate always)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv6>
    <default-route-informations>
      <default-route-information> <!-- operation="delete"-->
        <originate>originate</originate>
      </default-route-information>
    </default-route-informations>
  </address-family-ipv6>
</isis>
```

Command Syntax

```
default-information (originate|originate level-1|originate always)
```

Configure route map name

Route-map Name

Attribute Name: route-map-name

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

<address-family-ipv6>
<default-route-informations>
<default-route-information>
  <originate>originate</originate>
  <config>
    <originate>originate</originate>
  </config>
  <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
</default-route-information>
</default-route-informations>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
default-information (originate|originate level-1|originate always) route-map WORD
```

Configure afi name

Use this attribute to configure IPv6 routing specific configuration

Attribute Name: afi-name

Attribute Type: enum (ipv6)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<config>
  <afi-name>1</afi-name>
</config>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
address-family ipv6
```

Configure address-family-ipv6 afi-name

Use this attribute to configure IPv6 routing specific configuration

Attribute Name: afi-name

Attribute Type: enum (ipv6)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
address-family ipv6 unicast
```

Configure address-family-ipv6 disable-adjacency-check

Use this attribute to configure the policy of adjacency based on the protocol related TLVs in the ISIS Hello packet. ISIS checks adjacency with protocol related TLVs including Protocols Supported TLV or IP Interface Address TLV by default. The command with no parameter disables this check.

Attribute Name: disable-adjacency-check

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
no adjacency-check
```

Configure administrative distance

Use this attribute to set the administrative distance for all IPv6 routes

Attribute Name: administrative-distance

Attribute Type: uint32

Default Value: 115

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <address-family-ipv6>
      <config>
        <administrative-distance>1</administrative-distance> <!-- operation="delete"-
->
      </config>
    </address-family-ipv6>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distance <1-255>
```

Configure ipv6 metric value

Use this attributes to redistribute routes from another protocol into the ISIS routing table. With metric, metric-type, level and route-map options.

Attribute Name: ipv6-metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: ipv6-metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: ipv6-level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Attribute Name: ipv6-route-map

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv6>
    <redistributions>
      <redistribute>
        <ipv6-protocol-type>connected</ipv6-protocol-type>
        <config>
          <ipv6-protocol-type>connected</ipv6-protocol-type>
          <ipv6-metric-type>internal</ipv6-metric-type>
          <ipv6-level>level-2</ipv6-level>
          <ipv6-route-map>WORD</ipv6-route-map>
        </config>
        <ipv6-metric-value>0</ipv6-metric-value>
      </redistribute>
    </redistributions>
  </address-family-ipv6>
</isis>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp) ({ metric-type (internal|external) |
  level-1|level-2|level-1-2| route-map WORD| metric <0-16777215> }|)
```

Configure prefix

Use this attribute to configure the summary prefix to summarize IPv6 reachability information.

Attribute Name: prefix

Attribute Type: string

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
```



```

<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</address-family-ipv6>
</summary-prefixes>
<summary-prefix> <!-- operation="delete"-->
  <prefix>X:X::X:X/M</prefix>
  <config>
    <prefix>X:X::X:X/M</prefix>
    <level>level-1</level>
    <metric>1</metric>
  </config>
</summary-prefix>
</summary-prefixes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
summary-prefix X:X::X:X/M (level-1|level-2|level-1-2) (metric <1-63>|)
```

Configure level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</address-family-ipv6>
<multi-topologies>
  <multi-topology>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>
  </multi-topology>
</multi-topologies>
</address-family-ipv6>

```

```

</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
multi-topology (level-1)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv6>
    <multi-topologies>
      <multi-topology>
        <level>level-1-2</level>
        <config>
          <level>level-1-2</level>
        </config>
      </multi-topology>
    </multi-topologies>
  </address-family-ipv6>
</isis>

```

Command Syntax

```
multi-topology (level-2)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
multi-topology (level-1-2)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>

```

```

</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
multi-topology (level-1 transition)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
multi-topology (level-1-2 transition)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
  <level>level-1-2</level>
  <config>
    <level>level-1-2</level>
  </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

multi-topology (level-2 transition)

Configure isisSRv6enable

enable SRv6 for SR Policies

This command is supported when following feature are enabled SRv6 Feature

Attribute Name: isisSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<isis-srv6>
<config>
  </isisSRv6enable>
</config>
</isis-srv6>
</address-family-ipv6>
</isis-instance>

```

```
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing srv6
```

Configure isisSRv6LocatorName

Locator name

This command is supported when following feature are enabled SRv6 Feature

Attribute Name: isisSRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<isis-srv6>
<locator-lists>
<locator-list> <!-- operation="delete"-->
  <isisSRv6LocatorName>WORD</isisSRv6LocatorName>
  <config>
    <isisSRv6LocatorName>WORD</isisSRv6LocatorName>
  </config>
</locator-list>
</locator-lists>
</isis-srv6>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
srv6-locator WORD
```

Configure system id

System ID

This command is supported when following feature are enabled IPV6 feature

Attribute Name: system-id

Attribute Type: string

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv6>
<distances>
<distance>
  <system-id>WORD</system-id>
  <config>
    <system-id>System-ID</system-id>
    <value>1</value> <!-- operation="delete"-->
  </config>
</distance>
</distances>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distance <1-255> System-ID
```

Configure access list name

Use this attribute to set the administrative distance for specific IPv6 routes.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: access-list-name

Attribute Type: string

Default Value: ""

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
```

```

    </config>
<address-family-ipv6>
<distances>
<distance>
    <system-id>WORD</system-id>
    <config>
        <system-id>System-ID</system-id>
        <value>1</value> <!-- operation="delete"-->
    </config>
    <access-list-name>WORD</access-list-name> <!-- operation="delete"-->
</distance>
</distances>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
distance <1-255> System-ID (WORD|)
```

Configure value

System ID

Attribute Name: system-id

Attribute Type: string

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<distances>
<distance>
    <system-id>WORD</system-id>
    <config>
        <system-id>System-ID</system-id>
        <value>1</value> <!-- operation="delete"-->
    </config>
</distance>
</distances>
</isis-instance>
</isis-instances>

```



```
</isis>
```

Command Syntax

```
distance <1-255> System-ID
```

Configure distance access-list-name

Use this attribute to set the administrative distance for specific IPv4 routes.

Attribute Name: access-list-name

Attribute Type: string

Default Value: ""

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <distances>
    <distance>
      <system-id>WORD</system-id>
      <config>
        <system-id>System-ID</system-id>
        <value>1</value> <!-- operation="delete"-->
      </config>
      <access-list-name>WORD</access-list-name> <!-- operation="delete"-->
    </distance>
  </distances>
</isis>
```

Command Syntax

```
distance <1-255> System-ID (WORD|)
```

Configure set bit on boot

Overload interval after reboot

Attribute Name: set-bit-on-boot

Attribute Type: union

Attribute Name: enabled

Attribute Type: empty

Attribute Name: suppress-type

Attribute Type: enum (default|external|interlevel|external interlevel)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
set-overload-bit { suppress (external|interlevel|external interlevel) | on-startup
  (wait-for-bgp|<5-86400>) }
```

Configure enabled

Use this attribute to set the overload-bit in self-LSPs. If the overload-bit is set in LSPs, the router is not used as a transit router during SPF calculation. This configuration causes a router to update its own LSP with the overload bit set and causes the other routers not to use this router as a transit or forwarding router. The router continues to receive LSPs when the overload bit is set. If the on-startup option is specified, the router sets the overload bit only at startup, then clears the bit after the specified interval has elapsed. If the on-startup option is specified using the wait-for-bgp option, the overload bit is setup at startup, then the bit is cleared after the BGP router signals it has finished converging or if the router does not signal it has finished converging in 10 minutes. If there is no BGP process running, the overload bit clears immediately.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

<config>
  </enabled>
</config>
</lsp-over-load>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
set-overload-bit
```

Configure level-1-into-2-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <address-family-ipv4>
      <level-1-into-2-redistributes>
        <redistribute-level-1-into-2> <!-- operation="delete"-->
          </enable>
        <config>
          </enable>
        </config>
      </redistribute-level-1-into-2>
    </level-1-into-2-redistributes>
  </address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
redistribute isis level-1 into level-2
```

Configure redistribute-level-1-into-2 level-1-acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-1-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv4>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2>
  </enable>
  <config>
    </enable><!-- operation="delete"-->
  </config>
    <level-1-acl>WORD</level-1-acl> <!-- operation="delete"-->
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-1 into level-2 distribute-list WORD
```

Configure level-2-into-1-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<address-family-ipv4>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1> <!-- operation="delete"-->
  </enable>
  <config>
    </enable>
```

```

    </config>
  </redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
redistribute isis level-2 into level-1
```

Configure redistribute-level-2-into-1 level-2-acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-2-acl

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv4>
    <level-2-into-1-redistributes>
      <redistribute-level-2-into-1>
        </enable>
      </redistribute-level-2-into-1>
    </level-2-into-1-redistributes>
  </address-family-ipv4>
  </isis-instance>
</isis>

```

Command Syntax

```
redistribute isis level-2 into level-1 distribute-list WORD
```

Configure default-route-informations originate

Use this attribute to originate reachability information to Default destination into LSP. There is no default information in Level-2 domain by default, while Level-1 router calculates default to L1L2 route during SPF calculation. This command enables to originate default route into Level-2 domain.

Attribute Name: originate

Attribute Type: enum (originate|originate level-1|originate always)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv4>
    <default-route-informations>
      <default-route-information> <!-- operation="delete"-->
        <originate>originate</originate>
        <config>
          <originate>originate</originate>
        </config>
      </default-route-information>
    </default-route-informations>
  </address-family-ipv4>
</isis>
```

Command Syntax

```
default-information (originate|originate level-1|originate always)
```

Configure default-route-information route-map-name

Route Map Name Attribute

Attribute Name: route-map-name

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv4>
    <default-route-informations>
      <default-route-information>
        <originate>originate</originate>
        <config>
```

```

    <originate>originate</originate>
  </config>
  <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
</default-route-information>
</default-route-informations>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
default-information (originate|originate level-1|originate always) route-map WORD
```

Configure metric value

IS-IS metric

Attribute Name: metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: route-map

Attribute Type: string

Default Value: ""

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <address-family-ipv4>
    <redistributions>
      <redistribute>
        <protocol-type>connected</protocol-type>
      </redistribute>
    </redistributions>
  </address-family-ipv4>
  <metric-type>internal</metric-type>
</isis>

```

```

        <route-map>WORD</route-map>
        <level>level-2</level>
    </config>
    <metric-value>0</metric-value>
</redistribute>
</redistributions>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```

redistribute (connected|static|rip|ospf|bgp) ({ metric-type (internal|external) |
route-map WORD| level-1|level-2|level-1-2| metric <0-16777215> }|)

```

Configure metric

Use this attribute to Summary Address to summarize IPv4 reachability information.

Attribute Name: prefix

Attribute Type: string

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
</isis-instance>
</isis-instances>
</isis>

```



```
</isis-instances>
</isis>
```

Command Syntax

```
summary-address A.B.C.D/M (level-1|level-2|level-1-2) (metric <1-63>|)
```

Configure id

Instance ID

Attribute Name: id

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
<address-family-ipv4>
<redistribute-isis-instances>
<redistribute-isis-instance> <!-- operation="delete"-->
  <id>WORD</id>
  <config>
    <id>WORD</id>
  </config>
</redistribute-isis-instance>
</redistribute-isis-instances>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis WORD
```

Configure metric type

IS-IS metric

Attribute Name: metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: route-map

Attribute Type: string

Default Value: ""

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <address-family-ipv4>
      <redistribute-isis-instances>
        <redistribute-isis-instance>
          <id>WORD</id>
          <config>
            <id>WORD</id>
            <metric-type>internal</metric-type>
            <route-map>WORD</route-map>
            <level>level-2</level>
          </config>
          <metric-value>0</metric-value>
        </redistribute-isis-instance>
      </redistribute-isis-instances>
    </address-family-ipv4>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis WORD { metric-type (internal|external) | route-map WORD | level-
1|level-2|level-1-2 | metric <0-16777215> }
```

Configure passive interface all

Use this attribute to set all interfaces as passive.

Attribute Name: passive-interface-all

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
```

```

<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<passive-interfaces>
<config>
  </passive-interface-all><!-- operation="delete"-->
</config>
</passive-interfaces>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
passive-interface
```

Configure name

Use this attribute to set interface as passive.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <passive-interfaces>
      <passive-interface> <!-- operation="delete"-->
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      </passive-interface>
    </passive-interfaces>
  </isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
passive-interface IFNAME
```

Configure disable-passive-interfaces name

Use this attribute to set interface as passive.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <passive-interfaces>
    <disable-passive-interfaces>
      <disable-passive-interface> <!-- operation="delete"-->
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      </disable-passive-interface>
    </disable-passive-interfaces>
  </passive-interfaces>
</isis>
```

Command Syntax

```
passive-interface IFNAME disable
```

Configure protocol

Protocol Address Family

This command is supported when following feature are enabled ISIS SR Feature

Attribute Name: protocol

Attribute Type: enum (ipv4|ipv6)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <microloop-avoidance-segment-routing>
    <segment-routing>
      <level-type>level-1</level-type>
      <config>
        <level-type>level-1</level-type>
      </config>
    </segment-routing>
  </microloop-avoidance-segment-routing>
</isis>
```

```

</config>
<protocols>
<protocol> <!-- operation="delete"-->
  <protocol>ipv4</protocol>
  <config>
    <protocol>ipv4</protocol>
  </config>
</protocol>
</protocols>
</segment-routing>
</microloop-avoidance-segment-routing>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
microloop-avoidance segment-routing (level-1|level-2) proto (ipv4|ipv6)
```

Configure fib delay

Fib-delay

This command is supported when following feature are enabled ISIS SR Feature

Attribute Name: fib-delay

Attribute Type: uint32

Default Value: 1500

Attribute Range: 100-300000

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>
<microloop-avoidance-segment-routing>
<segment-routing>
  <level-type>level-1</level-type>
  <config>
    <level-type>level-1</level-type>
  </config>
</segment-routing>
</microloop-avoidance-segment-routing>
</isis>

```

```

    </protocol>
  </protocols>
</segment-routing>
</microloop-avoidance-segment-routing>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```

microloop-avoidance segment-routing (level-1|level-2) proto (ipv4|ipv6) fib-delay
<100-300000>

```

Configure hold timer

Time that a router waits to acquire a set of LSPs to process together

Attribute Name: hold-timer

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <microloop-avoidances>
    <microloop-avoidance>
      <level-type>level-1</level-type>
      <config>
        <level-type>level-1</level-type>
        <hold-timer>1</hold-timer> <!-- operation="delete"-->
      </config>
    </microloop-avoidance>
  </microloop-avoidances>
</isis>

```

Command Syntax

```

microloop-avoidance hold-timer <1-60> (level-1|level-2)

```

Configure max fib

Maximum time required to update a FIB irrespective of the change

Attribute Name: max-fib

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance max-fib <1-60> (level-1|level-2)
```

Configure level type

Microloop avoidance

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</isis-instance>
</isis-instances>
</isis>
```

```
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance (level-1|level-2)
```

Configure enable level 1

Use this attribute to configure MPLS Traffic Engineering feature for ISIS.

Attribute Name: enable-level-1

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <mpls-traffic-engg>
    <config>
      </enable-level-1><!-- operation="delete"-->
    </config>
  </mpls-traffic-engg>
</isis>
```

Command Syntax

```
mpls traffic-eng level-1
```

Configure enable level 2

Use this attribute to configure MPLS Traffic Engineering feature for ISIS.

Attribute Name: enable-level-2

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <mpls-traffic-engg>
```



```
<config>
  </enable-level-2><!-- operation="delete"-->
</config>
</mpls-traffic-eng>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
mpls traffic-eng level-2
```

Configure algo number

Use this attribute to configure Flexible Algorithm specific configuration

Attribute Name: algo-number

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </flexalgos>
    <flexalgo> <!-- operation="delete"-->
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
    </flexalgo>
  </flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
flex-algo <128-255>
```

Configure disable advertise definition

Use this attribute to unconfigure the ISIS Flexible Algorithm Advertisement

Attribute Name: disable-advertise-definition

Attribute Type: uint8

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  </disable-advertise-definition><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
no advertise
```

Configure disable participate

Use this attribute to unconfigure the ISIS Flexible Algorithm Participation

Attribute Name: disable-participate

Attribute Type: uint8

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  </disable-participate><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>

```

```
</isis>
```

Command Syntax

```
no participate
```

Configure flexalgo metric-type

ISIS Flexible Algorithm metric type

Attribute Name: metric-type

Attribute Type: enum (igp-metric|link-delay|te-metric)

Default Value: igp-metric

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgorithms>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <metric-type>igp-metric</metric-type> <!-- operation="delete"-->
    </flexalgo>
  </flexalgorithms>
</isis>
```

Command Syntax

```
metric-type (igp-metric|link-delay|te-metric)
```

Configure calculation type

ISIS Flexible Algorithm calculation type

Attribute Name: calculation-type

Attribute Type: enum (spf)

Default Value: spf

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
```

```

    <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <calculation-type>spf</calculation-type> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

calculation-type (spf)

Configure priority

Flexible Algorithm priority Value

Attribute Name: priority

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-255

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <priority>1</priority> <!-- operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>

```

Command Syntax

```
priority <1-255>
```

Configure exclude minimum bandwidth

Minimum bandwidth value constraint for flexible algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: exclude-minimum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    <flexalgos>
      <flexalgo>
        <algo-number>128</algo-number>
        <config>
          <algo-number>128</algo-number>
        </config>
        <exclude-minimum-bandwidth>BANDWIDTH</exclude-minimum-bandwidth> <!--
operation="delete"-->
      </flexalgo>
    </flexalgos>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
exclude-minimum-bandwidth BANDWIDTH
```

Configure exclude maximum delay

Use this attribute to specify maximum link delay value constraint for flexible algorithm

Attribute Name: exclude-maximum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
```

```

    <config>
      <instance>WORD</instance>
    </config>
  </flexalgos>
</flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <exclude-maximum-delay>1</exclude-maximum-delay> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
exclude-maximum-delay <1-16777215>
```

Configure enable intf group mode bw calc

Enable interface group mode total bandwidth calculation for ISIS Flexible algorithm

Attribute Name: enable-intf-group-mode-bw-calc

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      </enable-intf-group-mode-bw-calc><!-- operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>

```

Command Syntax

```
intf-group-mode bandwidth
```

Configure reference bandwidth

Reference bandwidth value constraint for flexible algorithm SPF's automatic metric calculation. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: reference-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <reference-bandwidth>BANDWIDTH</reference-bandwidth> <!-- operation="delete"-
->
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
reference-bandwidth BANDWIDTH
```

Configure granularity bandwidth

Granularity bandwidth value constraint for flexible algorithm SPF's automatic metric calculation. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: granularity-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
```

```

<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <granularity-bandwidth>BANDWIDTH</granularity-bandwidth> <!--
operation="delete"-->
</flexalgo>
</flexalgorithms>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
granularity-bandwidth BANDWIDTH
```

Configure enable fast reroute

Use this attribute to configure the ISIS Flexible Algorithm fast rerouting

Attribute Name: enable-fast-reroute

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgorithms>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      </enable-fast-reroute><!-- operation="delete"-->
    </flexalgo>
  </flexalgorithms>
</isis>

```

Command Syntax

```
fast-reroute
```

Configure enable remote lfa

Use this attribute to configure the ISIS Flexible Algorithm Remote-LFA

Attribute Name: enable-remote-lfa

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgorithms>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      </enable-remote-lfa><!-- operation="delete"-->
    </flexalgo>
  </flexalgorithms>
</isis>
```

Command Syntax

```
remote-lfa
```

Configure enable ti lfa

Use this attribute to configure the ISIS Flexible Algorithm TI-LFA

Attribute Name: enable-ti-lfa

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgorithms>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      </enable-ti-lfa><!-- operation="delete"-->
    </flexalgo>
  </flexalgorithms>
</isis>
```

```

</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
ti-lfa
```

Configure flexalgo enable-backup-srlg-disjoint-path

Use this attribute to configure the ISIS Flexible Algorithm SRLG-disjoint backup path

Attribute Name: enable-backup-srlg-disjoint-path

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  </enable-backup-srlg-disjoint-path><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
backup srlg-disjoint path
```

Configure flexalgo enable-backup-srlg-disjoint-forced

Use this attribute to configure the ISIS Flexible Algorithm forced SRLG-disjoint backup path

Attribute Name: enable-backup-srlg-disjoint-forced

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>

```

```

    <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  </enable-backup-srlg-disjoint-forced><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
backup srlg-disjoint forced
```

Configure enable prefix metric flag

Use this attribute to configure the ISIS Flexible Algorithm prefix-metric flag sub-TLV advertisement

Attribute Name: enable-prefix-metric-flag

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      </enable-prefix-metric-flag><!-- operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>

```

Command Syntax

```
prefix-metric-flag
```

Configure fapm metric

Distance Value

Attribute Name: fapm-metric

Attribute Type: uint8

Default Value: 24

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <fapm-metric>1</fapm-metric> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fapm-metric <1-255>
```

Configure maximum ecmp paths

Distance Value

Attribute Name: maximum-ecmp-paths

Attribute Type: uint8

Default Value: 8

Attribute Range: 8-64

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
```

```

        <instance>WORD</instance>
    </config>
</flexalgos>
</flexalgo>
    <algo-number>128</algo-number>
    <config>
        <algo-number>128</algo-number>
    </config>
    <maximum-ecmp-paths>8</maximum-ecmp-paths> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
maximum-ecmp-paths <8-64>
```

Configure affinity eag exclude any

Flexible Algorithm Exclude Any Affinity-EAG Name

Attribute Name: affinity-eag-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <affinity-eag-exclude-any>WORD</affinity-eag-exclude-any> <!--
operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>

```

Command Syntax

```
affinity-eag-exclude-any WORD
```

Configure affinity eag include any

Flexible Algorithm Include Any Affinity-EAG Name

Attribute Name: affinity-eag-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <affinity-eag-include-any>WORD</affinity-eag-include-any> <!--
operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
affinity-eag-include-any WORD
```

Configure affinity eag include all

Flexible Algorithm Include All Affinity-EAG Name

Attribute Name: affinity-eag-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-eag-include-all>WORD</affinity-eag-include-all> <!--
operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

affinity-eag-include-all WORD

Configure affinity eag reverse exclude any

Flexible Algorithm reverse Exclude Any Affinity-EAG Name

Attribute Name: affinity-eag-reverse-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-eag-reverse-exclude-any>WORD</affinity-eag-reverse-exclude-any> <!--
- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

affinity-eag-reverse-exclude-any WORD

Configure affinity eag reverse include any

Flexible Algorithm reverse Include Any Affinity-EAG Name

Attribute Name: affinity-eag-reverse-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <affinity-eag-reverse-include-any>WORD</affinity-eag-reverse-include-any> <!--
- operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
affinity-eag-reverse-include-any WORD
```

Configure affinity eag reverse include all

Flexible Algorithm reverse Include All Affinity-EAG Name

Attribute Name: affinity-eag-reverse-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```



```

<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-eag-reverse-include-all>WORD</affinity-eag-reverse-include-all> <!--
- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

affinity-eag-reverse-include-all WORD

Configure affinity ag exclude any

Flexible Algorithm Exclude Any Affinity-AG Name

Attribute Name: affinity-ag-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-ag-exclude-any>WORD</affinity-ag-exclude-any> <!--
operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

affinity-ag-exclude-any WORD

Configure affinity ag include any

Flexible Algorithm Include Any Affinity-AG Name

Attribute Name: affinity-ag-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <affinity-ag-include-any>WORD</affinity-ag-include-any> <!--
operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
affinity-ag-include-any WORD
```

Configure affinity ag include all

Flexible Algorithm Include All Affinity-AG Name

Attribute Name: affinity-ag-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-ag-include-all>WORD</affinity-ag-include-all> <!--
operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
affinity-ag-include-all WORD
```

Configure affinity ag reverse exclude any

Flexible Algorithm reverse Exclude Any Affinity-AG Name

Attribute Name: affinity-ag-reverse-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-ag-reverse-exclude-any>WORD</affinity-ag-reverse-exclude-any> <!--
operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
affinity-ag-reverse-exclude-any WORD
```

Configure affinity ag reverse include any

Flexible Algorithm reverse Include Any Affinity-AG Name

Attribute Name: affinity-ag-reverse-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <affinity-ag-reverse-include-any>WORD</affinity-ag-reverse-include-any> <!--
operation="delete"-->
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
affinity-ag-reverse-include-any WORD
```

Configure affinity ag reverse include all

Flexible Algorithm reverse Include All Affinity-AG Name

Attribute Name: affinity-ag-reverse-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <affinity-ag-reverse-include-all>WORD</affinity-ag-reverse-include-all> <!--
operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
affinity-ag-reverse-include-all WORD
```

Configure exclude srlg

Flexible Algorithm Exclude Shared Risk Link Groups

Attribute Name: exclude-srlg

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
<flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <exclude-srlg>1</exclude-srlg> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
exclude-srlg <1-4294967295>
```

Configure bandwidth threshold

Staircase bandwidth threshold value constraint for flexible algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: bandwidth-threshold

Attribute Type: string

Attribute Name: threshold-metric

Attribute Type: uint32

Attribute Range: 1-4261412

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
  <flexalgos>
    <flexalgo>
      <algo-number>128</algo-number>
      <config>
        <algo-number>128</algo-number>
      </config>
      <flexalgo-bandwidth-thresholds>
        <flexalgo-bandwidth-threshold> <!-- operation="delete"-->
          <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
          <config>
            <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
            <threshold-metric>1</threshold-metric>
          </config>
        </flexalgo-bandwidth-threshold>
      </flexalgo-bandwidth-thresholds>
    </flexalgo>
  </flexalgos>
</isis>
```

Command Syntax

```
bandwidth-threshold BANDWIDTH threshold-metric <1-4261412>
```

Configure threshold metric

Link metric value for the bandwidth threshold

Attribute Name: threshold-metric

Attribute Type: uint32

Attribute Range: 1-4261412

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
</flexalgos>
<flexalgo>
  <algo-number>128</algo-number>
  <config>
    <algo-number>128</algo-number>
  </config>
  <flexalgo-bandwidth-thresholds>
  <flexalgo-bandwidth-threshold>
    <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
    <config>
      <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
    </config>
    <threshold-metric>1</threshold-metric> <!-- operation="delete"-->
  </flexalgo-bandwidth-threshold>
</flexalgo-bandwidth-thresholds>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
flex-algo <128-255> bandwidth-threshold BANDWIDTH threshold-metric <1-4261412>
```

Configure flexalgo-microloop-avoidances level-type

IS-IS instance level,(1|2)

Attribute Name: level-type

Attribute Type: enum (level-1|level-2)

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
  <instance>WORD</instance>
  <config>
```

```

        <instance>WORD</instance>
    </config>
</flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
        <algo-number>128</algo-number>
    </config>
    <flexalgo-microloop-avoidances>
    <flexalgo-microloop-avoidance> <!-- operation="delete"-->
        <level-type>level-1</level-type>
        <config>
            <level-type>level-1</level-type>
        </enable>
    </config>
    </flexalgo-microloop-avoidance>
</flexalgo-microloop-avoidances>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
microloop-avoidance (level-1|level-2)
```

Configure flexalgo-microloop-avoidance enable

Microloop avoidance

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
</flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
        <algo-number>128</algo-number>
    </config>
    <flexalgo-microloop-avoidances>
    <flexalgo-microloop-avoidance>
        <level-type>level-1</level-type>

```



```

    <config>
      <level-type>level-1</level-type>
    </config>
    </enable><!-- operation="delete"-->
  </flexalgo-microloop-avoidance>
</flexalgo-microloop-avoidances>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
microloop-avoidance flex-algo <128-255> (level-1|level-2)
```

Configure options

Debug Configuration Flag

Attribute Name: options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <debug>
    <config>
      <options>ifsm</options> <!-- operation="delete"-->
    </config>
  </debug>
</isis>

```

Command Syntax

```
debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

Configure enable hello

Use this attribute to turn on debugging for ISIS hello.

Attribute Name: enable-hello

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <debug>
    <config>
      </enable-hello><!-- operation="delete"-->
    </config>
  </debug>
</isis>

```

```
</debug>
</isis>
```

Command Syntax

```
debug isis hello
```

Configure cspf

Use this attribute to enable CSPF debug logs.

Attribute Name: cspf

Attribute Type: bits (events|hexdump)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <debug>
    <config>
      <cspf>events</cspf> <!-- operation="delete"-->
    </config>
  </debug>
</isis>
```

Command Syntax

```
debug isis cspf (events|hexdump)
```

clear clns is-neighbors System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
<isis-clear-is-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <system-id>System-ID</system-id>
</isis-clear-is-neighbors>
```

Command Syntax

```
clear clns is-neighbors System-ID
```

clear clns neighbors

Netconf RPC payload

```
<isis-clear-clns-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
clear clns neighbors
```

clear ip isis (WORD|) route (redistribution|all)

Attribute Name: instance

Attribute Type: string

Attribute Name: ipv4-route

Attribute Type: enum (redistribution|all)

Netconf RPC payload

```
<isis-clear-ip-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <instance>WORD</instance>
  <ipv4-route>redistribution</ipv4-route>
</isis-clear-ip-route>
```

Command Syntax

```
clear ip isis (WORD|) route (redistribution|all)
```

clear ipv6 isis (WORD|) route (redistribution|all)

Attribute Name: instance

Attribute Type: string

Attribute Name: ipv6-route

Attribute Type: enum (redistribution|all)

Netconf RPC payload

```
<isis-clear-ipv6-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <instance>WORD</instance>
  <ipv6-route>redistribution</ipv6-route>
</isis-clear-ipv6-route>
```

Command Syntax

```
clear ipv6 isis (WORD|) route (redistribution|all)
```

clear isis (WORD|) process

Attribute Name: instance

Attribute Type: string

Netconf RPC payload

```
<isis-process-clear xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <instance>WORD</instance>
</isis-process-clear>
```

Command Syntax

```
clear isis (WORD|) process
```

clear isis counter

Netconf RPC payload

```
<isis-clear-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
clear isis counter
```

clear isis te-global counter ((ilm|route-ftn|trunk-ftn|bypass-ftn)|)

Attribute Name: te-global-counter-options

Attribute Type: enum (ilm|route-ftn|trunk-ftn|bypass-ftn)

Netconf RPC payload

```
<isis-clear-te-global-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <te-global-counter-options>ilm</te-global-counter-options>
</isis-clear-te-global-counters>
```

Command Syntax

```
clear isis te-global counter ((ilm|route-ftn|trunk-ftn|bypass-ftn)|)
```

clear isis adjacency * (vrf VRFNAME|)

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-clear-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-clear-adjacency-all>
```

Command Syntax

```
clear isis adjacency * (vrf VRFNAME|)
```

clear isis WORD adjacency * (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-process-clear-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <tag-name>WORD</tag-name>
  <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-process-clear-adjacency-all>
```

```
</isis-process-clear-adjacency-all>
```

Command Syntax

```
clear isis WORD adjacency * (vrf VRFNAME|)
```

clear isis WORD adjacency (IFNAME|) (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: tag-if-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-process-clear-adjacency-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <tag-name>WORD</tag-name>
  <tag-if-name>IFNAME</tag-if-name>
  <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-process-clear-adjacency-interface>
```

Command Syntax

```
clear isis WORD adjacency (IFNAME|) (vrf VRFNAME|)
```

clear isis adjacency (IFNAME|) (vrf VRFNAME|)

Attribute Name: adjacency-if-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-clear-adjacency-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <adjacency-if-name>IFNAME</adjacency-if-name>
  <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-clear-adjacency-interface>
```

Command Syntax

```
clear isis adjacency (IFNAME|) (vrf VRFNAME|)
```

clear isis WORD adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: tag-system-id

Attribute Type: string

Attribute Name: tag-vrf-name

Attribute Type: string

Netconf RPC payload

```

<isis-process-clear-adjacency-system-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <tag-name>WORD</tag-name>
  <tag-system-id>XXXX.XXXX.XXXX</tag-system-id>
  <tag-vrf-name>VRFNAME</tag-vrf-name>
</isis-process-clear-adjacency-system-id>

```

Command Syntax

```
clear isis WORD adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)
```

clear isis adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)

Attribute Name: adjacency-system-id

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```

<isis-clear-adjacency-system-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <adjacency-system-id>XXXX.XXXX.XXXX</adjacency-system-id>
  <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-clear-adjacency-system-id>

```

Command Syntax

```
clear isis adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)
```

snmp restart isis

Netconf RPC payload

```
<isis-restart-snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
snmp restart isis
```

debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf RPC payload

```
<isis-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <terminal-debug-options>ifsm</terminal-debug-options>
</isis-terminal-debug-on>
```

Command Syntax

```
debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

no debug isis

(ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf RPC payload

```
<isis-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <terminal-debug-options>ifsm</terminal-debug-options>
</isis-debug-off>
```

Command Syntax

```
no debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

debug isis spf-trace

Netconf RPC payload

```
<isis-terminal-debug-spf-trace-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-isis"/>
```

Command Syntax

```
debug isis spf-trace
```

no debug isis spf-trace

Netconf RPC payload

```
<isis-terminal-debug-spf-trace-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-isis"/>
```

Command Syntax

```
no debug isis spf-trace
```

debug isis hello

Netconf RPC payload

```
<isis-debug-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
debug isis hello
```

no debug isis hello

Netconf RPC payload

```
<isis-debug-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
no debug isis hello
```

debug isis hello interface IFNAME

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```
<isis-debug-interface-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">  
  <interface>IFNAME</interface>  
</isis-debug-interface-hello-on>
```

Command Syntax

```
debug isis hello interface IFNAME
```

no debug isis hello interface IFNAME

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```
<isis-debug-interface-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">  
  <interface>IFNAME</interface>  
</isis-debug-interface-hello-off>
```

Command Syntax

```
no debug isis hello interface IFNAME
```

debug isis hello System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
<isis-debug-system-id-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <system-id>System-ID</system-id>
</isis-debug-system-id-hello-on>
```

Command Syntax

```
debug isis hello System-ID
```

no debug isis hello System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
<isis-debug-system-id-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <system-id>System-ID</system-id>
</isis-debug-system-id-hello-off>
```

Command Syntax

```
no debug isis hello System-ID
```

no debug all isis

Netconf RPC payload

```
<isis-all-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
no debug all isis
```

debug isis cspf (events|hexdump)

Attribute Name: cspf-debug

Attribute Type: bits (events|hexdump)

Netconf RPC payload

```
<isis-debug-cspf-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <cspf-debug>events</cspf-debug>
</isis-debug-cspf-on>
```

Command Syntax

```
debug isis cspf (events|hexdump)
```

no debug isis cspf (events|hexdump)

Attribute Name: cspf-debug

Attribute Type: bits (events|hexdump)

Netconf RPC payload

```
<isis-debug-cspf-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <cspf-debug>events</cspf-debug>
</isis-debug-cspf-off>
```

Command Syntax

```
no debug isis cspf (events|hexdump)
```

IPI-ISIS-LSP

Configure spf max delay

Maximum delay between receiving a change to SPF calculation in milliseconds. The default value is 5000

Attribute Name: spf-max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <spf-levels>
        <spf-level>
          <level>level-1-2</level>
          <config>
            <level>level-1-2</level>
          </config>
          <spf-delays>
            <spf-delay> <!-- operation="delete"-->
              <spf-max-delay>0</spf-max-delay>
              <config>
                <spf-max-delay>0</spf-max-delay>
                <spf-min-delay>0</spf-min-delay>
              </config>
            </spf-delay>
          </spf-delays>
        </spf-level>
      </spf-levels>
    </isis-instance>
  </isis-instances>
</isis>
```

```

        <spf-min-delay>0</spf-min-delay>
    </spf-delay>
</spf-delays>
</spf-level>
</spf-levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
spf-interval-exp ((level-1|level-2) |) <0-2147483647> <0-2147483647>
```

Configure lsp max wait interval

Use this attribute to set minimum interval before regenerating the same LSP. The smaller the interval, the faster the convergence. However, this setting might cause more frequent flooding

Attribute Name: lsp-max-wait-interval

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-120

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
  <isis-instance>
    <instance>WORD</instance>
    <config>
      <instance>WORD</instance>
    </config>
    <levels>
    <level>
      <type>level-1-2</type>
      <config>
        <type>level-1-2</type>
      </config>
      <lsp-max-wait-interval>1</lsp-max-wait-interval> <!--
operation="delete"-->
    </level>
  </levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
lsp-gen-interval ((level-1|level-2) |) <1-120>
```

Configure lsp mtu size

Use this attribute to set minimum interval before regenerating the same LSP

Attribute Name: lsp-mtu-size

Attribute Type: uint16

Default Value: 1492

Attribute Range: 512-4352

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <levels>
        <level>
          <type>level-1-2</type>
          <config>
            <type>level-1-2</type>
          </config>
          <lsp-mtu-size>512</lsp-mtu-size> <!-- operation="delete"-->
        </level>
      </levels>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
lsp-mtu ((level-1|level-2)|) <512-4352>
```

Configure wait timer

Number of seconds to delay in waiting state before on state

Attribute Name: wait-timer

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
    </isis-instance>
  </isis-instances>
</isis>
```

```

    <levels>
    <level>
        <type>level-1-2</type>
        <config>
            <type>level-1-2</type>
        </config>
        <wait-timer>1</wait-timer> <!-- operation="delete"-->
    </level>
</levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
isis wait-timer <1-65535> level-1-2
```

Configure restart timer

Use this attribute to restart the ISIS timer

Attribute Name: restart-timer

Attribute Type: uint16

Attribute Range: 5-65535

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
    <isis-instance>
        <instance>WORD</instance>
        <config>
            <instance>WORD</instance>
        </config>
        <levels>
        <level>
            <type>level-1-2</type>
            <config>
                <type>level-1-2</type>
            </config>
            <restart-timer>5</restart-timer> <!-- operation="delete"-->
        </level>
        </levels>
    </isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
restart-timer <5-65535> level-1-2
```

Configure instance

Number of seconds to delay in waiting state before on state

Attribute Name: wait-timer

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <levels>
        <level>
          <type>level-1-2</type>
          <config>
            <type>level-1-2</type>
          </config>
          <wait-timer>1</wait-timer> <!-- operation="delete"-->
        </level>
      </levels>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
isis wait-timer <1-65535> (level-1|level-2|)
```

Configure type

Use this attribute to restart the ISIS timer

Attribute Name: restart-timer

Attribute Type: uint16

Attribute Range: 5-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <levels>
```

```

    <level>
      <type>level-1-2</type>
      <config>
        <type>level-1-2</type>
      </config>
      <restart-timer>5</restart-timer> <!-- operation="delete"-->
    </level>
  </levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
restart-timer <5-65535> (level-1|level-2|)
```

Configure mode

Use this attribute to set the authentication mode at the instance level.

Attribute Name: mode

Attribute Type: enum (md5|text)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <levels>
        <level>
          <type>level-1-2</type>
          <config>
            <type>level-1-2</type>
          </config>
          <authentication>
            <config>
              <mode>md5</mode>
            </config>
          </authentication>
        </level>
      </levels>
    </isis-instance>
  </isis-instances>
</isis>

```

Command Syntax

```
authentication mode (md5|text) (level-1|level-2|)
```

Configure key chain

Use this attribute to set the key chain to be used for authentication at the instance level. Authentication mode must be set to md5/text to configure the key chain.

Attribute Name: key-chain

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <levels>
        <level>
          <type>level-1-2</type>
          <config>
            <type>level-1-2</type>
          </config>
          <authentication>
            <config>
              <key-chain>WORD</key-chain> <!-- operation="delete"-->
            </config>
          </authentication>
        </level>
      </levels>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
authentication key-chain WORD (level-1|level-2|)
```

IPI-ISIS-EXTENDED

Configure remote lfa protocol

Protocol Address Family

Attribute Name: remote-lfa-protocol

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
```



```

<isis-instance>
  <instance>WORD</instance>
  <config>
    <instance>WORD</instance>
  </config>
  <fast-reroute-levels>
  <fast-reroute>
    <level-type>level-1</level-type>
    <config>
      <level-type>level-1</level-type>
    </config>
    <remote-lfa-protocol>ipv4</remote-lfa-protocol> <!--
operation="delete"-->
  </fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
fast-reroute per-prefix remote-lfa (level-1|level-2) proto (ipv4) tunnel mpls-ldp
```

Configure name

Specific prefix allowed using this route map

This command is supported when following feature are enabled ISIS feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <fast-reroute-levels>
      <fast-reroute>
        <level-type>level-1</level-type>
        <config>
          <level-type>level-1</level-type>
        </config>
        <route-maps>
        <route-map>
          <protocol>ipv4</protocol>
          <config>
            <protocol>ipv4</protocol>
          </config>

```

```

        <name>WORD</name> <!-- operation="delete"-->
    </route-map>
</route-maps>
</fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
fast-reroute per-prefix (level-1|level-2) proto (ipv4) route-map WORD
```

Configure enable all prefixes

Apply on all prefixes

This command is supported when following feature are enabled ISIS feature

Attribute Name: enable-all-prefixes

Attribute Type: enum (all)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
  <isis-instance>
    <instance>WORD</instance>
    <config>
      <instance>WORD</instance>
    </config>
    <fast-reroute-levels>
    <fast-reroute>
      <level-type>level-1</level-type>
      <config>
        <level-type>level-1</level-type>
      </config>
      <route-maps>
      <route-map>
        <protocol>ipv4</protocol>
        <config>
          <protocol>ipv4</protocol>
        </config>
        <enable-all-prefixes>all</enable-all-prefixes> <!--
operation="delete"-->
      </route-map>
    </route-maps>
  </fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
fast-reroute per-prefix (level-1|level-2) proto (ipv4) (all)
```

Configure protocol

Protocol Address Family

This command is supported when following feature are enabled SR TI-LFA feature

Attribute Name: protocol

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
  <isis-instance>
    <instance>WORD</instance>
    <config>
      <instance>WORD</instance>
    </config>
    <fast-reroute-levels>
    <fast-reroute>
      <level-type>level-1</level-type>
      <config>
        <level-type>level-1</level-type>
      </config>
      <ti-lfas>
      <ti-lfa> <!-- operation="delete"-->
        <protocol>ipv4</protocol>
        <config>
          <protocol>ipv4</protocol>
        </config>
      </ti-lfa>
    </ti-lfas>
  </fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fast-reroute ti-lfa (level-1|level-2) proto (ipv4)
```

Configure preference index

this index indicates which tie-break option to be given preference

This command is supported when following feature are enabled ISIS feature

Attribute Name: preference-index

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <fast-reroute-levels>
      <fast-reroute>
        <level-type>level-1</level-type>
        <config>
          <level-type>level-1</level-type>
        </config>
        <protocols>
        <protocol>
          <preference-value>primary-path</preference-value>
          <config>
            <preference-value>primary-path</preference-value>
            <lfa-protocol>ipv4</lfa-protocol>
          </config>
            <lfa-protocol>ipv4</lfa-protocol>
            <preference-index>1</preference-index> <!-- operation="delete"-->
          </protocol>
        </protocols>
      </fast-reroute>
    </fast-reroute-levels>
  </isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fast-reroute tie-break (level-1|level-2) proto (ipv4) (primary-path|node-
protecting|interface-disjoint|broadcast-interface-disjoint|srlg-
disjoint|broadcast-srlg-disjoint|downstream-path|secondary-path) index <1-255>
```

Configure grace period

The period within which ISIS should come up

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <graceful-restart>
  <config>
```

```

        <grace-period>1</grace-period> <!-- operation="delete"-->
</config>
</graceful-restart>
</isis>

```

Command Syntax

```
isis restart grace-period <1-65535>
```

Configure enable helper only

Attribute to configure helper mode

Attribute Name: enable-helper-only

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <graceful-restart>
    <config>
      </enable-helper-only><!-- operation="delete"-->
    </config>
  </graceful-restart>
</isis>

```

Command Syntax

```
isis restart helper
```

Configure suppress adjacency

When set to true, adjacency is not advertised. The SA bit is used by a starting router to request that its neighbor suppress advertisement of the adjacency to the starting router in the neighbor's LSPs.

Attribute Name: suppress-adjacency

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <graceful-restart>
    <config>
      </suppress-adjacency><!-- operation="delete"-->
    </config>
  </graceful-restart>
</isis>

```

Command Syntax

```
isis restart suppress-adjacency
```

restart isis graceful (grace-period <1-65535>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
<ipi-isis-extended_isis-restart-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <grace-period>1</grace-period>
</ipi-isis-extended_isis-restart-graceful>
```

Command Syntax

```
restart isis graceful (grace-period <1-65535>|)
```

IPI-ISIS-SR

Configure receive disable

Use this attribute to receive label binding TLVs

Attribute Name: receive-disable

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <segment-routing>
        <config>
          </receive-disable><!-- operation="delete"-->
        </config>
      </segment-routing>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
segment-routing prefix-sid-map receive disable
```

Configure enabled

Use this attribute to enable MPLS-based segment routing for an ISIS process

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
  <isis-instance>
    <instance>WORD</instance>
    <config>
      <instance>WORD</instance>
    </config>
    <segment-routing>
    <config>
      </enabled>
    </config>
  </segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing mpls
```

Configure advertise local

Use this attribute to advertise prefix-SID mapping

Attribute Name: advertise-local

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
  <isis-instance>
    <instance>WORD</instance>
    <config>
      <instance>WORD</instance>
    </config>
    <segment-routing>
    <config>
      </advertise-local><!-- operation="delete"-->
    </config>
  </segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing prefix-sid-map advertise-local
```

Configure global block base

Segment Node Base Value. Default value is 16000

Attribute Name: global-block-base

Attribute Type: int32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
        <instance>WORD</instance>
      </config>
      <segment-routing>
        <global-blocks>
          <global-block> <!-- operation="delete"-->
            <global-block-range>16</global-block-range>
            <config>
              <global-block-range>16</global-block-range>
              <global-block-base>16</global-block-base>
            </config>
            <global-block-base>16</global-block-base>
          </global-block>
        </global-blocks>
      </segment-routing>
    </isis-instance>
  </isis-instances>
</isis>
```

Command Syntax

```
isis segment-routing global block <16-1048575> <16-1048575>
```

Configure entropy label

Use this attribute to enable segment routing entropy capability.

This command is supported when following feature are enabled sr mpls feature

Attribute Name: entropy-label

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
    <isis-instance>
      <instance>WORD</instance>
      <config>
```



```

        <instance>WORD</instance>
    </config>
    <segment-routing>
    <sr-capability-entropy>
    <config>
        </entropy-label><!-- operation="delete"-->
    </config>
    </sr-capability-entropy>
</segment-routing>
</isis-instance>
</isis-instances>
</isis>

```

Command Syntax

```
segment-routing entropy-label
```

IPI-ISIS-INTERFACE

Configure minimal

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <minimal>3</minimal> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis hello-interval minimal level-1
```

Configure name

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <minimal>3</minimal> <!-- operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis hello-interval minimal level-2
```

Configure send only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <send-only>3</send-only> <!-- operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis authentication send-only level-1
```

Configure interface send-only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes

smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <send-only>3</send-only> <!-- operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis authentication send-only level-2
```

Configure interface minimal

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <minimal>level-1-2</minimal> <!-- operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis hello-interval minimal (level-1-only|level-2-only|)
```

Configure interface send-only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <send-only>level-1-2</send-only> <!-- operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis authentication send-only (level-1-only|level-2-only|level-1-2|)
```

Configure maximum bandwidth flex algo

Interface ASLA maximum bandwidth value for IGP Flexible Algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: maximum-bandwidth-flex-algo

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <maximum-bandwidth-flex-algo>BANDWIDTH</maximum-bandwidth-flex-algo> <!--
operation="delete"-->
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
maximum-bandwidth flex-algo BANDWIDTH
```

Configure disable asla usage flex algo

Use this attribute to disable ASLA Link attributes usage for flexible-algorithm on this Link. The command with no keyword enables the ASLA usage

Attribute Name: disable-asla-usage-flex-algo

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        </disable-asla-usage-flex-algo><!-- operation="delete"-->
      </interface>
    </interfaces>
  </isis>
```

Command Syntax

```
disable asla flex-algo
```

Configure disable padding

Use this attribute to configure/unconfigure the padding of the ISIS Hello packet. ISIS pads the Hello packet by default to notify neighbors of the supported MTU size.

Attribute Name: disable-padding

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <interface-parameters>
          <config>
            </disable-padding><!-- operation="delete"-->
          </config>
        </interface-parameters>
      </interface>
    </interfaces>
```

```
</isis>
```

Command Syntax

```
no isis hello padding
```

Configure network type

Use this attribute to change a broadcast interface network type to a point-to-point network type and vice-versa.

Attribute Name: network-type

Attribute Type: enum (broadcast|point-to-point)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <config>
          <network-type>broadcast</network-type> <!-- operation="delete"-->
        </config>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis network (broadcast|point-to-point)
```

Configure circuit type

Use this attribute to set the circuit type for the interface. If level-1 or level-2-only is specified in this attribute, ISIS sends only the specified level of PDUs. On the point-to-point interface, there is only one type of Hello packet, so in this case ISIS Hello will be sent regardless of circuit-type. If istype is configured as level-1 or level-2 only, routing for this instance is performed for only the specified level. In this manner, only the particular level of PDU is sent on the interface.

Attribute Name: circuit-type

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</isis>
```

```

    </config>
    <interface-parameters>
    <config>
        <circuit-type>level-1-2</circuit-type> <!-- operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis circuit-type (level-1|level-2-only|level-1-2)
```

Configure ipv4 instance tag

Use this attribute to enable ISIS IPv4 routing on the interface. This attribute is mandatory to ISIS configuration. Match the ISIS instance tag to one of existing instance.s tags, or a new instance with the tag name should be initiated, otherwise routing will not run on this interface. Configuring this attribute, the router sends ISIS Hello with IP address TLV on this interface, and IP reachability information TLV in the LSP will be updated.

Attribute Name: ipv4-instance-tag

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <interface-parameters>
    <config>
        <ipv4-instance-tag>WORD</ipv4-instance-tag> <!-- operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
ip router isis WORD
```

Configure ipv6 instance tag

Use this attribute to enable ISIS IPv6 routing on the interface. This attribute is mandatory to IPv6 ISIS configuration. Match the ISIS instance tag to one of existing instance.s tags, or a new instance with the tag name should be initiated, otherwise routing will not run on this interface. Configuring this attribute, the router sends ISIS Hello with IPv6 address TLV on this interface, and IPv6 reachability information TLV in the LSP will be updated.

Attribute Name: ipv6-instance-tag

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <config>
          <ipv6-instance-tag>WORD</ipv6-instance-tag> <!-- operation="delete"-->
        </config>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
ipv6 router isis WORD
```

Configure lsp interval

Use this attribute to set the Link State Packet (LSP) transmission interval. Configuring this attribute changes the minimum interval between two consecutive LSP transmission. When flooding or some other event triggers LSP to transmit, the LSP is put on the interface queue and scheduled to transmit according to this interval. Two consecutive LSP transmissions are scheduled to have at least this interval.

Attribute Name: lsp-interval

Attribute Type: uint32

Default Value: 33

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <config>
          <lsp-interval>1</lsp-interval> <!-- operation="delete"-->
        </config>
      </interface-parameters>
    </interface>
  </interfaces>
```

```
</isis>
```

Command Syntax

```
isis lsp-interval <1-4294967295>
```

Configure retransmit interval

Interval between retransmissions of the same LSP in seconds

Attribute Name: retransmit-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <config>
          <retransmit-interval>1</retransmit-interval> <!-- operation="delete"-->
        </config>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis retransmit-interval <1-65535>
```

Configure mesh group id

Use this attribute to specify to block LSPs on the current interface. If an interface is configured as mesh group blocked, the standard LSP database synchronization process is applied if the interface receives CSNP or PSNP.

Attribute Name: mesh-group-id

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</isis>
```

```

    </config>
    <interface-parameters>
    <config>
        <mesh-group-id>blocked</mesh-group-id> <!-- operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis mesh-group (blocked|<1-4294967295>)
```

Configure delay normalize interval

The value of the normalization interval for measured delay

Attribute Name: delay-normalize-interval

Attribute Type: uint32

Attribute Range: 1-2147483

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <interface-parameters>
    <config>
        <delay-normalize-interval>1</delay-normalize-interval> <!--
operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
normalize delay isis <1-2147483>
```

Configure delay normalize offset

The value of the normalization interval for measured delay

Attribute Name: delay-normalize-offset

Attribute Type: uint32

Attribute Range: 1-2147483

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <config>
          <delay-normalize-offset>1</delay-normalize-offset> <!--
operation="delete"-->
        </config>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
normalize delay isis <1-2147483>
```

Configure enable

Use this attribute to enable the BFD check on interface.

This command is supported when following feature are enabled

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <bfd>
          <config>
            </enable><!-- operation="delete"-->
          </config>
        </bfd>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
isis bfd
```

Configure disable

Use this attribute to disable the BFD check on interface.

This command is supported when following feature are enabled

Attribute Name: disable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <bfd>
          <config>
            </disable><!-- operation="delete"-->
          </config>
        </bfd>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis bfd disable
```

Configure disable level 1

Use this attribute to disable fr on an interface for level-1.

Attribute Name: disable-level-1

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <fast-re-route>
          <config>
            </disable-level-1><!-- operation="delete"-->
          </config>
        </fast-re-route>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

```

</fast-re-route>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis fast-reroute per-prefix candidate disable level-1
```

Configure disable level 2

Use this attribute to disable frr on an interface for level-2.

Attribute Name: disable-level-2

Attribute Type: empty

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    </config>
    <interface-parameters>
      <fast-re-route>
        <config>
          </disable-level-2><!-- operation="delete"-->
        </config>
      </fast-re-route>
    </interface-parameters>
  </interface>
</interfaces>
</isis>

```

Command Syntax

```
isis fast-reroute per-prefix candidate disable level-2
```

Configure hello interval

Use this attribute to set the Hello interval in seconds. The Hello-interval is set with the hello-multiplier. Configuring this attribute changes the time interval between two consecutive Hello transmissions. If a device receives its own LSP with a maximum sequence number, then it suspends ISIS for the hold interval. DIS sends Hello transmissions at three times the rate than non-DIS. If ISIS is elected as DIS on this interface, ISIS sends Hello every 3.3 seconds. If minimal keyword is specified, Holding timer in Hello PDU is set to 1 second and Hello interval is calculated by dividing by the hello-multiplier.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <hello-interval>1</hello-interval> <!-- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis hello-interval <1-65535> (level-1|level-2|)
```

Configure hello multiplier

Use this attribute to set multiplier for Hello holding time. Changes Holding Timer in Hello PDU. Holding timer is calculated by .Hello-Interval. multiplied by this value. If minimal keyword is specified with the Hello-Interval, the holding timer is set to 1 second and the hello-interval is calculated by dividing 1 by this value.

Attribute Name: hello-multiplier

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-100

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
```

```

    <level-info>
      <level>level-1-2</level>
      <config>
        <level>level-1-2</level>
      </config>
      <hello-multiplier>2</hello-multiplier> <!-- operation="delete"-->
    </level-info>
  </level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis hello-multiplier <2-100> (level-1|level-2|)
```

Configure csnp interval

Use this attribute to set CSNP (Complete sequence number PDU) interval in seconds. Configuring this attribute changes the interval between two consecutive CSNP transmission. By default, CSNP is sent every 10 seconds only by LAN DIS. This parameter is only valid on broadcast interface, since periodic CSNP is only sent on broadcast interface, while CSNP on Point-to-Point interface is sent only when adjacency is initiated.

Attribute Name: csnp-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <csnp-interval>1</csnp-interval> <!-- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
isis csnp-interval <1-65535> (level-1|level-2|)
```

Configure priority

Use this attribute to set the priority for LAN DIS election. This attribute changes the priority value in LAN ISIS Hello PDUs. A lower priority value is less preferred in DIS election, and a higher priority value is more preferred

Attribute Name: priority

Attribute Type: uint8

Default Value: 64

Attribute Range: 0-127

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
    <level-infos>
      <level-info>
        <level>level-1-2</level>
        <config>
          <level>level-1-2</level>
        </config>
        <priority>0</priority> <!-- operation="delete"-->
      </level-info>
    </level-infos>
  </interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis priority <0-127> (level-1|level-2|)
```

Configure metric

Use this attribute to set default metric for the interface. The interface default metric is put into IP reachability information TLVs, IS reachability information TLVs and IPv6 reachability TLVs in LSPs. The value is used for SPF calculation, and is applied when the metric-style is configured as .narrow.

Attribute Name: metric

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-63

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
  <level-infos>
  <level-info>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>
    <metric>1</metric> <!-- operation="delete"-->
  </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis metric <1-63> (level-1|level-2|)
```

Configure password

Use this attribute to set the authentication password of Hello PDU on the interface.

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
  <level-infos>
  <level-info>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>
  </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

```

        <password>WORD</password> <!-- operation="delete"-->
    </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis password WORD (level-1|level-2|)
```

Configure tag

Use this attribute to sets the tag for link-state packets (LSPs) sent out advertising routes for networks directly connected to an interface. If you do not specify a parameter, then the tag value is set for level-1-2 boundary

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <tag>1</tag> <!-- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
isis tag <1-4294967295> (level-1|level-2|)
```

Configure wide metric

Use this attribute to set wide metric for the interface. Interface wide-metric is put into Extended IP reachability TLVs, Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs. The value is used for SPF calculation. This value is applied when metric-style is configured as 'wide'.

Attribute Name: wide-metric

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-16777214

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <wide-metric>1</wide-metric> <!-- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis wide-metric <1-16777214> (level-1|level-2|)
```

Configure te metric

Use this attribute to set te metric for the interface. Interface te-metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs. The value is used for CSPF calculation

Attribute Name: te-metric

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
  <level-infos>
  <level-info>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>
    <te-metric>1</te-metric> <!-- operation="delete"-->
  </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis te-metric <1-16777215> (level-1|level-2|)
```

Configure restart hello interval

Use this attribute to configure the T1 timer, interval of ISIS Hello packet with restart TLV.

Attribute Name: restart-hello-interval

Attribute Type: uint16

Default Value: 3

Attribute Range: 1-65535

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <interface-parameters>
    <level-infos>
    <level-info>
      <level>level-1-2</level>
      <config>
        <level>level-1-2</level>
      </config>
      <restart-hello-interval>1</restart-hello-interval> <!--
operation="delete"-->
    </level-info>

```

```

</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis restart-hello-interval <1-65535> (level-1|level-2|)
```

Configure te metric flex algo ipv4

Interface IPv4 te-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: te-metric-flex-algo-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <te-metric-flex-algo-ipv4>1</te-metric-flex-algo-ipv4> <!--
operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
isis te-metric flex-algo ipv4 <1-16777215> (level-1|level-2|)
```

Configure te metric flex algo ipv6

Interface IPv6 te-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: te-metric-flex-algo-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <te-metric-flex-algo-ipv6>1</te-metric-flex-algo-ipv6> <!--
operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis te-metric flex-algo ipv6 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric ipv4

Interface IPv4 bandwidth-metric for usage in IGP CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
```

```

    <level-infos>
    <level-info>
      <level>level-1-2</level>
      <config>
        <level>level-1-2</level>
      </config>
      <bandwidth-metric-ipv4>1</bandwidth-metric-ipv4> <!-- operation="delete"-
->
    </level-info>
  </level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis bandwidth-metric ipv4 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric ipv6

Interface IPv6 bandwidth-metric for usage in CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <interface-parameters>
    <level-infos>
    <level-info>
      <level>level-1-2</level>
      <config>
        <level>level-1-2</level>
      </config>
      <bandwidth-metric-ipv6>1</bandwidth-metric-ipv6> <!-- operation="delete"-
->
    </level-info>
  </level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis bandwidth-metric ipv6 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric flex algo ipv4

Interface IPv4 bandwidth-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-flex-algo-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <bandwidth-metric-flex-algo-ipv4>1</bandwidth-metric-flex-algo-ipv4> <!--
operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis bandwidth-metric flex-algo ipv4 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric flex algo ipv6

Interface IPv6 bandwidth-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-flex-algo-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
  <level-infos>
  <level-info>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>
    <bandwidth-metric-flex-algo-ipv6>1</bandwidth-metric-flex-algo-ipv6> <!--
operation="delete"-->
  </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis bandwidth-metric flex-algo ipv6 <1-16777215> (level-1|level-2|)
```

Configure te minimum delay

Interface minimum delay value in microseconds.

Attribute Name: te-minimum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <interface-parameters>
  <level-infos>
  <level-info>
    <level>level-1-2</level>
    <config>
      <level>level-1-2</level>
    </config>

```

```

        <te-minimum-delay>1</te-minimum-delay> <!-- operation="delete"-->
    </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis te-minimum-delay <1-16777215> (level-1|level-2|)
```

Configure te maximum delay

Interface maximum delay value in microseconds.

Attribute Name: te-maximum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <interface-parameters>
    <level-infos>
    <level-info>
        <level>level-1-2</level>
        <config>
            <level>level-1-2</level>
        </config>
        <te-maximum-delay>1</te-maximum-delay> <!-- operation="delete"-->
    </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
</interfaces>
</isis>

```

Command Syntax

```
isis te-maximum-delay <1-16777215> (level-1|level-2|)
```

Configure te minimum delay flex algo

Interface minimum delay value for IGP Flexible Algorithm in microseconds.

Attribute Name: te-minimum-delay-flex-algo

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <te-minimum-delay-flex-algo>1</te-minimum-delay-flex-algo> <!--
operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis te-minimum-delay flex-algo <1-16777215> (level-1|level-2|)
```

Configure te maximum delay flex algo

Interface maximum delay value for IGP Flexible Algorithm in microseconds.

Attribute Name: te-maximum-delay-flex-algo

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
```

```

        <level>level-1-2</level>
    <config>
        <level>level-1-2</level>
    </config>
    <te-maximum-delay-flex-algo>1</te-maximum-delay-flex-algo> <!--
operation="delete"-->
</level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis te-maximum-delay flex-algo <1-16777215> (level-1|level-2|)
```

Configure extended admin group flex algo

Use this attribute to assign one or more, extended administrative groups (EAG) for normal delay in the interface for Flexible-Algorithm purposes

Attribute Name: extended-admin-group-flex-algo

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <extended-admin-group-flex-algo>NAME</extended-admin-group-flex-algo> <!--
- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```

Command Syntax

```
isis extended-admin-group flex-algo NAME (level-1|level-2|)
```

Configure extended admin group flex algo anomaly

Use this attribute to assign one or more, extended administrative groups (EAG) for anomalous delay in the interface for Flexible-Algorithm purposes

Attribute Name: extended-admin-group-flex-algo-anomaly

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <extended-admin-group-flex-algo-anomaly>NAME</extended-admin-group-flex-
            algo-anomaly> <!-- operation="delete"-->
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>
```

Command Syntax

```
isis extended-admin-group flex-algo anomaly NAME (level-1|level-2|)
```

Configure admin group flex algo

Use this attribute to assign one or more, administrative groups (AG) to the interface for Flexible-Algorithm purposes

Attribute Name: admin-group-flex-algo

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</isis>
```

```

    <interface-parameters>
    <level-infos>
    <level-info>
        <level>level-1-2</level>
        <config>
            <level>level-1-2</level>
        </config>
        <admin-group-flex-algo>NAME</admin-group-flex-algo> <!--
operation="delete"-->
    </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis admin-group flex-algo NAME (level-1|level-2|)
```

Configure admin group flex algo anomaly

Use this attribute to assign one or more, administrative groups (AG) for anomalous delay in the interface for Flexible-Algorithm purposes

Attribute Name: admin-group-flex-algo-anomaly

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <interface-parameters>
    <level-infos>
    <level-info>
        <level>level-1-2</level>
        <config>
            <level>level-1-2</level>
        </config>
        <admin-group-flex-algo-anomaly>NAME</admin-group-flex-algo-anomaly> <!--
operation="delete"-->
    </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis admin-group flex-algo anomaly NAME (level-1|level-2|)
```

Configure shared risk link group flex algo

Use this attribute to add the link to a flexible-algorithm application specific srlg group

Attribute Name: shared-risk-link-group-flex-algo

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
            <shared-risk-link-group-flex-algo>1</shared-risk-link-group-flex-algo>
          <!-- operation="delete"-->
            </level-info>
          </level-infos>
        </interface-parameters>
      </interface>
    </interfaces>
  </isis>
```

Command Syntax

```
isis srlg flex-algo <1-4294967295> (level-1|level-2|)
```

Configure mode

Use this attribute to set the MD5 authentication mode.

Attribute Name: mode

Attribute Type: enum (md5|text)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface-parameters>
<level-infos>
<level-info>
  <level>level-1-2</level>
  <config>
    <level>level-1-2</level>
  </config>
  <authentication>
    <config>
      <mode>md5</mode>
    </config>
  </authentication>
</level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis authentication mode (md5|text) (level-1|level-2|)
```

Configure key chain

Use this attribute to set the key chain to be used for authentication on the interface-related packets. Authentication mode must be set to md5/text to configure the key chain. Only one authentication key-chain is applied to an ISIS interface at a time. Authentication can be specified for an entire instance of ISIS, instead of at the interface level, by setting the authentication key-chain attribute at global level.

Attribute Name: key-chain

Attribute Type: string

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-parameters>
        <level-infos>
          <level-info>
            <level>level-1-2</level>
            <config>
              <level>level-1-2</level>
            </config>
          </level-info>
        </level-infos>
      </interface-parameters>
    </interface>
  </interfaces>
</isis>

```



```

    </config>
    <authentication>
    <config>
        <key-chain>WORD</key-chain> <!-- operation="delete"-->
    </config>
    </authentication>
</level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
isis authentication key-chain WORD (level-1|level-2|)
```

Configure hold timer

It is the max time period for which IGP should advertise the max metric for the interface in case of LDP session down on that interface.

This command is supported when following feature are enabled

Attribute Name: hold-timer

Attribute Type: uint32

Attribute Range: 1-2147483

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```

<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <igp-ldp-sync>
    <config>
        <level>level-1</level>
        <hold-timer>1</hold-timer>
    </config>
</igp-ldp-sync>
</interface>
</interfaces>
</isis>

```

Command Syntax

```
mpls ldp-igp sync isis (level-1|level-2|level-1-2) (holddown-timer <1-2147483>|)
```

clear isis interface counter (IFNAME|)

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-isis-interface_isis-clear-interface-counters xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-isis">
  <name>IFNAME</name>
</ipi-isis-interface_isis-clear-interface-counters>
```

Command Syntax

```
clear isis interface counter (IFNAME|)
```

IPI-KEYCHAIN

Configure name

key-chain name

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
  <key-chain> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </key-chain>
</key-chains>
```

Command Syntax

```
key chain WORD
```

Configure key id

Use this attribute to manageCOMMA add or delete authentication keys in a key-chain

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
  <key-chain>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</keys>
<key-list> <!-- operation="delete"-->
  <key-id>0</key-id>
  <config>
    <key-id>0</key-id>
  </config>
</key-list>
</keys>
</key-chain>
</key-chains>

```

Command Syntax

```
key-id <0-2147483647>
```

Configure key string

Use this attribute to define a password to be used by a key

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-80

Netconf edit-config payload

```

<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
  <key-chain>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </key-chain>
</key-chains>

```

Command Syntax

```
key-string WORD
```

Configure encrypted

Use this attribute to pass the key string in hexadecimal string format

Attribute Name: encrypted

Attribute Type: string

Attribute Range: 18-218

Netconf edit-config payload

```
<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
  <key-chain>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </key-chain>
</key-chains>
```

Command Syntax

```
key-string encrypted WORD
```

IPI-PIM

Configure bfd

Use this attribute to debug the PIM BFD feature.

This command is supported when following feature are enabled Bidirectional Forwarding Detection (BFD)

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <debug>
    <config>
      <bfd><!-- operation="delete"-->
    </config>
  </debug>
</pim>
```

```
</pim>
```

Command Syntax

```
debug pim bfd
```

IPI-PIM-IPV4

Configure router id

Use this attribute to configure PIM router-ID to uniquely identify the router. By default, PIM registers for the NSM router-id service. This attribute will override the router-id received from NSM.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) router-id A.B.C.D
```

Configure join prune interval

Use this attribute to set a PIM join/prune timer.

Attribute Name: join-prune-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```

    <vrf-name>NAME</vrf-name>
  </config>
  <join-prune-interval>1</join-prune-interval> <!-- operation="delete"-->
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) jp-timer <1-65535>
```

Configure ecmp bundle

Use this attribute to create an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
        </instance>
      </instances>
    </ipv4>
  </pim>

```

Command Syntax

```
ip pim (vrf NAME|) ecmp-bundle WORD
```

Configure enable bfd all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>

```

```

    <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  </enable-bfd-all-interfaces><!-- operation="delete"-->
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) bfd all-interfaces
```

Configure register reachability check

Use this attribute to enable the RP reachability check for PIM Registers at the designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: register-reachability-check

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <register-reachability-check>enable</register-reachability-check> <!--
operation="delete"-->
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv4>
  </pim>

```

Command Syntax

```
ip pim (vrf NAME|) register-rp-reachability (disable|enable)
```

Configure rate limit

Use this attribute to configure the rate of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: rate-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <rate-limit>1</rate-limit> <!-- operation="delete"-->
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv4>
  </pim>
```

Command Syntax

```
ip pim (vrf NAME|) register-rate-limit <1-65535>
```

Configure suppress interval

Use this attribute to configure the register suppression time.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: suppress-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 11-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <suppress-interval>11</suppress-interval> <!-- operation="delete"-->
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv4>
  </pim>
```



```

    </config>
  </register-packet>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) register-suppression <11-65535>
```

Configure keep alive interval

Use this attribute to configure a Keep alive Timer (KAT) value for (S,G) states at RP to monitor PIM register packets.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: keep-alive-interval

Attribute Type: uint16

Default Value: 185

Attribute Range: 1-65535

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <keep-alive-interval>1</keep-alive-interval> <!-- operation="delete"-->
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv4>
  </pim>

```

Command Syntax

```
ip pim (vrf NAME|) rp-register-kat <1-65535>
```

Configure source address

Use this attribute to configure the source address of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
            <source-address>PIM_IPV4_REG_SOURCE_T</source-address>
          </config>
        </register-packet>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) register-source (A.B.C.D|IFNAME)
```

Configure accept register

Use this attribute to configure the ACL of register packets accepted by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: accept-register

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
            <accept-register>WORD</accept-register> <!-- operation="delete"-->
          </config>
        </register-packet>
      </instance>
    </instances>
```

```
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) accept-register list WORD
```

Configure ignore rp set priority

Use this attribute to ignore the RP-SET priority value, and use only the hashing mechanism for RP selection. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: ignore-rp-set-priority

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <interop>
            <config>
              </ignore-rp-set-priority><!-- operation="delete"-->
            </config>
          </interop>
        </instance>
      </instances>
    </ipv4>
  </pim>
```

Command Syntax

```
ip pim (vrf NAME|) ignore-rp-set-priority
```

Configure cisco bsr interop enable

Use this attribute to turn on or turn the Candidate-RP debugging timer working with Cisco BSR.

Attribute Name: cisco-bsr-interop-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```

        <vrf-name>NAME</vrf-name>
    </config>
    <interop>
    <config>
        </cisco-bsr-interop-enable><!-- operation="delete"-->
    </config>
</interop>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) crp-cisco-prefix
```

Configure access control list

Use this attribute to configure the option to calculate the register checksum over the whole packet on multicast groups specified by the access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
    <instance>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <interop>
      <register-packet>
      <config>
        </cisco-register-checksum-enable><!-- operation="delete"-->
        <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
      </config>
    </register-packet>
    </interop>
    </instance>
    </instances>
  </ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) cisco-register-checksum group-list WORD
```

Configure cisco register checksum enable

Use this attribute to configure the option to calculate the register checksum over the whole packet. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <interop>
          <register-packet>
            <config>
              </cisco-register-checksum-enable>
            </config>
          </register-packet>
        </interop>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) cisco-register-checksum
```

Configure vrf name

Use this attribute to to enable the ability of the last-hop PIM router to switch to SPT for multicast group addresses indicated by the given standard access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
```

```

<instances>
<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <spt-switch>
  <config>
    </enable><!-- operation="delete"-->
    <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
    </config>
  </spt-switch>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) spt-threshold group-list WORD
```

Configure enable

Use this attribute to enable the ability of the last-hop PIM router to switch to SPT.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <spt-switch>
  <config>
    </enable>
  </config>
</spt-switch>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) spt-threshold
```

Configure range policy

Use this attribute to set Source Specific Multicast (SSM) and define the range of multicast IP addresses. Ranges can be either the default, which defines the SSM range as 232/8, or indicated by the given standard access control list.

This command is supported when following feature are enabled PIM Source Specific Multicast (SSM)

Attribute Name: range-policy

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ssm>
          <config>
            <range-policy>PIM_IPV4_SSM_RANGE_POLICY_TYPE_T</range-policy>
          </config>
        </ssm>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) ssm (range WORD|default)
```

Configure member rp address

Destination IP address where register messages are copied and sent. A Member RP is an individual RP member in the anycast RP set.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: member-rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
      </instance>
    </instances>
  </ipv4>
</pim>
```

```

    <anycast-rps>
    <anycast-rp> <!-- operation="delete"-->
        <member-rp-address>A.B.C.D</member-rp-address>
        <config>
            <member-rp-address>A.B.C.D</member-rp-address>
            <anycast-rp-address>A.B.C.D</anycast-rp-address>
        </config>
        <anycast-rp-address>A.B.C.D</anycast-rp-address>
    </anycast-rp>
</anycast-rps>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) anycast-rp A.B.C.D A.B.C.D
```

Configure rp address

Use this attribute to statically configure Rendezvous Point (RP) address for multicast groups.

Attribute Name: rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <static-rps>
    <static-rps-default>
    <static-rp-default> <!-- operation="delete"-->
        <rp-address>A.B.C.D</rp-address>
    <config>
        <rp-address>A.B.C.D</rp-address>
    </config>
    </static-rp-default>
</static-rps-default>
</static-rps>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>

```


Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D
```

Configure override dynamically learned rp

Use this attribute to configure the flag to override dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <rendezvous-point>
            <static-rps>
              <static-rps-default>
                <static-rp-default>
                  <rp-address>A.B.C.D</rp-address>
                  <config>
                    <rp-address>A.B.C.D</rp-address>
                    <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
                  </config>
                </static-rp-default>
              </static-rps>
            </static-rps-default>
          </static-rps>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv4>
  </pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D WORD override
```

Configure static-rp-default access-control-list

Use this attribute to configure the name of access control list (ACL).

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <static-rps>
            <static-rps-default>
              <static-rp-default>
                <rp-address>A.B.C.D</rp-address>
                <config>
                  <rp-address>A.B.C.D</rp-address>
                </config>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
              </static-rp-default>
            </static-rps>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv4>
  </pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D WORD
```

Configure static-rp-default override-dynamically-learned-rp

Use this attribute to configure the flag to override dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```

    <vrf-name>NAME</vrf-name>
  </config>
  <rendezvous-point>
    <static-rps>
      <static-rps-default>
        <static-rp-default>
          <rp-address>A.B.C.D</rp-address>
        <config>
          <rp-address>A.B.C.D</rp-address>
        </config>
        </override-dynamically-learned-rp><!-- operation="delete"-->
      </static-rp-default>
    </static-rps-default>
  </static-rps>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D override
```

Configure interface name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <bootstrap-router>
            <bsr-candidate>
              <config>
                <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
              </config>
            </bsr-candidate>
          </bootstrap-router>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv4>
</pim>

```

```

</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME
```

Configure hash mask length

Use this attribute to configure the mask length used to calculate the group address for RP.

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <bootstrap-router>
            <bsr-candidate>
              <config>
                <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
                <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
              </config>
            </bsr-candidate>
          </bootstrap-router>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME <0-32>
```

Configure priority

Use this attribute to configure the priority value for candidate BSR router.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <rendezvous-point>
            <bootstrap-router>
              <bsr-candidate>
                <config>
                  <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
                  <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
                  <priority>0</priority> <!-- operation="delete"-->
                </config>
              </bsr-candidate>
            </bootstrap-router>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv4>
  </pim>

```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME <0-32> <0-255>
```

Configure bsr-candidate interface-name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <bootstrap-router>
            <bsr-candidate>
              <config>
                <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
              </config>
            </bsr-candidate>
          </bootstrap-router>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME
```

Configure rp-candidates interface-name

Use this attribute to configure the interface name for RP.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <rp-candidates>
            <rp-candidate> <!-- operation="delete"-->
              <interface-name>IFNAME</interface-name>
            </rp-candidate>
          </rp-candidates>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv4>
</pim>

```

```

    </config>
  </rp-candidate>
</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (vrf NAME|) rp-candidate IFNAME
```

Configure advertisement interval

Use this attribute to configure the priority value for RP candidate.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: advertisement-interval

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <rp-candidates>
            <rp-candidate>
              <interface-name>IFNAME</interface-name>
              <config>
                <interface-name>IFNAME</interface-name>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
              </config>
              <advertisement-interval>1</advertisement-interval> <!--
operation="delete"-->
            </rp-candidate>
            <priority>0</priority> <!-- operation="delete"-->
          </rp-candidates>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv4>
</pim>

```

```

</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```

ip pim (vrf NAME|) rp-candidate IFNAME (group-list WORD|) (interval <1-16383>|)
(priority <0-255>|)

```

Configure originator id

Use this attribute to allow a Multicast Source Discovery Protocol (MSDP) speaker that originates a Source-Active (SA) message to use the IP address of an interface as a rendezvous point (RP) address in the SA message.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: originator-id

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <msdp>
    <config>
      <originator-id>IFNAME</originator-id> <!-- operation="delete"-->
    </config>
  </msdp>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```

ip msdp (vrf NAME|) originator-id IFNAME

```

Configure group address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) remote group.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <msdp>
          <source-active-entries>
            <source-active-entry> <!-- operation="delete"-->
              <group-address>A.B.C.D</group-address>
              <config>
                <group-address>A.B.C.D</group-address>
                <source-address>A.B.C.D</source-address>
                <rp-address>A.B.C.D</rp-address>
              </config>
              <source-address>A.B.C.D</source-address>
            </source-active-entry>
          </source-active-entries>
        </msdp>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) sa s A.B.C.D g A.B.C.D r A.B.C.D
```

Configure address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```

        <vrf-name>NAME</vrf-name>
    </config>
    <msdp>
    <peers>
    <peer> <!-- operation="delete"-->
        <address>A.B.C.D</address>
        <config>
            <address>A.B.C.D</address>
        </config>
    </peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip msdp (vrf NAME|) peer A.B.C.D
```

Configure mesh group

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: mesh-group

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
    <instance>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <msdp>
      <peers>
      <peer>
        <address>A.B.C.D</address>
        <config>
          <address>A.B.C.D</address>
          <mesh-group>WORD</mesh-group> <!-- operation="delete"-->
        </config>
      </peer>
    </instance>
  </instances>
</ipv4>
</pim>

```

```

</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip msdp (vrf NAME|) mesh-group WORD A.B.C.D
```

Configure default peer

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: default-peer

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <msdp>
          <peers>
            <peer>
              <address>A.B.C.D</address>
              <config>
                <address>A.B.C.D</address>
                </default-peer><!-- operation="delete"-->
              </config>
            </peer>
          </peers>
        </msdp>
      </instance>
    </instances>
  </ipv4>
</pim>

```

Command Syntax

```
ip msdp (vrf NAME|) default-peer A.B.C.D
```

Configure prefix list

Use this attribute to set a Multicast Source Discovery Protocol (MSDP) peer from which to accept Source-Active (SA) messages. You can have multiple active default peers: 1. When you enter multiple `ip msdp default-peer` commands with a `prefix-list` keyword, all the default peers are used at the same time for different RP prefixes. This form is typically used in a service provider cloud that connects stub site clouds. 2. When you enter multiple `ip msdp default-peer` commands without a `prefix-list` keyword, a single active peer accepts all SA messages. If that peer fails, the next configured default peer accepts all SA messages. This form is typically used at a stub site.

This command is supported when following feature are enabled `HAVE_PIM_MSDP`

Attribute Name: `prefix-list`

Attribute Type: `union`

Attribute Name: `default-peer`

Attribute Type: `empty`

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <msdp>
          <peers>
            <peer>
              <address>A.B.C.D</address>
              <config>
                <address>A.B.C.D</address>
                </default-peer><!-- operation="delete"-->
              </config>
              <prefix-list>PIM_IPV4_MSDP_PEER_ACL_T</prefix-list>
            </peer>
          </peers>
        </msdp>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) default-peer A.B.C.D prefix-list (WORD|<1-99>)
```

Configure peer source-address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled `HAVE_PIM_MSDP`

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <msdp>
          <peers>
            <peer>
              <address>A.B.C.D</address>
              <config>
                <address>A.B.C.D</address>
              </config>
              <source-address>PIM_IPV4_REG_SOURCE_T</source-address>
            </peer>
          </peers>
        </msdp>
      </instance>
    </instances>
  </ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) peer A.B.C.D connect-source (A.B.C.D|IFNAME)
```

Configure password

Use this command to set an password key used for authenticating a Multicast Source Discovery Protocol (MSDP) peer. By default, no password is enabled.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: password

Attribute Type: string

Attribute Range: 1-218

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
```

```

</config>
<msdp>
<peers>
<peer>
  <address>A.B.C.D</address>
  <config>
    <address>A.B.C.D</address>
  </config>
  <authentication>
  <config>
    <password>WORD</password> <!-- operation="delete"-->
  </config>
</authentication>
</peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>

```

Command Syntax

```
ip msdp (vrf NAME|) password WORD peer A.B.C.D
```

Configure options

Use this attribute to debug the PIM IPv4 feature.

Attribute Name: options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <debug>
  <config>
    <options>all</options> <!-- operation="delete"-->
  </config>
</debug>
</instance>
</instances>
</ipv4>

```

```
</pim>
```

Command Syntax

```
debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

Configure passive enable

PIM IPv4 passive mode.

Attribute Name: passive-enable

Attribute Type: empty

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
    <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
  </config>
  </passive-enable><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (dense-mode|sparse-mode) passive
```

Configure pim mode

PIM IPv4 mode to use when delivering multicast traffic via this interface.

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>

```

Command Syntax

```
ip pim (dense-mode|sparse-mode)
```

Configure bsr border

When set to true the device will not send bootstrap router messages over this interface. By default these are transmitted over all PIM IPv4 sparse mode (PIM-SM) enabled interfaces.

Attribute Name: bsr-border

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </bsr-border><!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>

```

Command Syntax

```
ip pim bsr-border
```

Configure dr priority

The designated router priority of this interface. Larger always preferred.

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>

```



```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <dr-priority>0</dr-priority> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>

```

Command Syntax

```
ip pim dr-priority <0-4294967294>
```

Configure hello interval

Use this attribute to configure a hello interval value other than the default. When a hello-interval is configured and hello-holdtime is not configured, or when the hello-holdtime value configured is less than the new hello-interval value, the holdtime value is modified to (3.5 * hello_interval). Otherwise, the hello-holdtime value is the configured value.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-18724

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <hello-interval>1</hello-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>

```

Command Syntax

```
ip pim hello-interval <1-18724>
```

Configure hello holdtime

Use this attribute to configure a hello message holdtime other than the default.

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 105

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <hello-holdtime>1</hello-holdtime> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim hello-holdtime <1-65535>
```

Configure exclude generated id

Exclude Gen-id option from PIM IPv4 Hello packets on this interface.

Attribute Name: exclude-generated-id

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </exclude-generated-id><!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim exclude-genid
```

Configure unicast bootstrap router

Use this attribute to enable support for sending and receiving unicast Bootstrap Messages (BSM) on an interface.

Attribute Name: unicast-bootstrap-router

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </unicast-bootstrap-router><!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim unicast-bsm
```

Configure neighbor access control list filter

Use this attribute to enable filtering of neighbors on the interface. When configuring a neighbor filter, PIM IPv4 either not establishes adjacency with neighbor or terminates adjacency with existing neighbors, when denied by filtering access list.

Attribute Name: neighbor-access-control-list-filter

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <neighbor-access-control-list-filter>WORD</neighbor-access-control-list-
filter> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>
```

Command Syntax

```
ip pim neighbor-filter WORD
```

Configure state refresh origination interval

Use this attribute to configure a PIM-DM State-Refresh origination interval other than the default value. The origination interval is the number of seconds between PIM-DM State Refresh control messages.

Attribute Name: state-refresh-origination-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 1-100

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <state-refresh-origination-interval>1</state-refresh-origination-interval>
      <!-- operation="delete"-->
    </interface>
  </interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim state-refresh origination-interval <1-100>
```

Configure name

Use this attribute to configure an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </interface>
    </interfaces>
  </ipv4>
</pim>
```

```

        <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>

```

Command Syntax

```
ip pim bind ecmp-bundle WORD
```

Configure propagation delay

Propagation-delay value.

Attribute Name: propagation-delay

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-32767

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <propagation-delay>0</propagation-delay> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv4>
</pim>

```

Command Syntax

```
ip pim propagation-delay <0-32767>
```

Configure enable bfd

Use this attribute to configure Bidirectional Forwarding Detection.

Attribute Name: enable-bfd

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>

```

```

    <config>
      <name>WORD</name>
    </config>
    <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
  </interface>
</interfaces>
</ipv4>
</pim>

```

Command Syntax

```
ip pim bfd (disable|)
```

Configure virtual router id

Use this attribute to set the designated router's priority value.

This command is supported when following feature are enabled HAVE_PIM_SM_VRRP_AWARE

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Attribute Name: virtual-router-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          <pim-redundancy>
            <vrrp>
              <config>
                <virtual-router-id>1</virtual-router-id>
                <dr-priority>0</dr-priority>
              </config>
            </vrrp>
          </pim-redundancy>
        </interface>
      </interfaces>
    </ipv4>
  </pim>

```

Command Syntax

```
ip pim redundancy <1-255> vrrp dr-priority <0-4294967294>
```

Configure vrrp virtual-router-id

Use this attribute to set virtual router identifier value.

This command is supported when following feature are enabled HAVE_PIM_SM_VRRP_AWARE

Attribute Name: virtual-router-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv4>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          <pim-redundancy>
            <vrrp>
              <config>
                <dr-priority>0</dr-priority>
                <virtual-router-id>1</virtual-router-id>
              </config>
            </vrrp>
          </pim-redundancy>
        </interface>
      </interfaces>
    </ipv4>
  </pim>
```

Command Syntax

```
ip pim redundancy <1-255> vrrp dr-priority <0-4294967294>
```

snmp restart pim

Netconf RPC payload

```
<ipi-pim-ipv4_pim-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim"/>
```

Command Syntax

```
snmp restart pim
```

clear ip pim (vrf NAME|) (sparse-mode) bsr rp-set *

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-bsr-rendezvous-point xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <pim-mode>sparse-mode</pim-mode>
</ipi-pim-ipv4_pim-ipv4-clear-bsr-rendezvous-point>
```

Command Syntax

```
clear ip pim (vrf NAME|) (sparse-mode) bsr rp-set *
```

clear ip mroute (vrf NAME|) * pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-multicast-route xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <pim-mode>dense-mode</pim-mode>
</ipi-pim-ipv4_pim-ipv4-clear-multicast-route>
```

Command Syntax

```
clear ip mroute (vrf NAME|) * pim (dense-mode|sparse-mode)
```

clear ip mroute (vrf NAME|) A.B.C.D pim sparse-mode

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
</ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group>
```

Command Syntax

```
clear ip mroute (vrf NAME|) A.B.C.D pim sparse-mode
```

clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group-mode xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
  <source-address>A.B.C.D</source-address>
  <pim-mode>dense-mode</pim-mode>
</ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group-mode>
```

Command Syntax

```
clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D pim (dense-mode|sparse-mode)
```

clear ip msdp (vrf NAME|) peer (A.B.C.D|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-msdp-peer xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
```

```
<vrf-name>NAME</vrf-name>
<address>A.B.C.D</address>
</ipi-pim-ipv4_pim-ipv4-clear-msdp-peer>
```

Command Syntax

```
clear ip msdp (vrf NAME|) peer (A.B.C.D|)
```

clear ip msdp (vrf NAME|) sa-cache (A.B.C.D|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-msdp-sa-cache xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
</ipi-pim-ipv4_pim-ipv4-clear-msdp-sa-cache>
```

Command Syntax

```
clear ip msdp (vrf NAME|) sa-cache (A.B.C.D|)
```

debug ip pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf RPC payload

```
<ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-on>
```

Command Syntax

```
debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

no debug ip pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf RPC payload

```
<ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-off>
```

Command Syntax

```
no debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

debug ip pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
</ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-on>
```

Command Syntax

```
debug ip pim (vrf NAME|)
```

no debug ip pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
</ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-off>
```

Command Syntax

```
no debug ip pim (vrf NAME|)
```

IPI-PIM-IPV6

Configure router id

Use this attribute to configure PIM router-ID to uniquely identify the router. By default, PIM registers for the NSM router-id service. This attribute will override the router-id received from NSM.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) router-id A.B.C.D
```

Configure join prune interval

Use this attribute to set a PIM join/prune timer.

Attribute Name: join-prune-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <join-prune-interval>1</join-prune-interval> <!-- operation="delete"-->
        </instance>
      </instances>
    </ipv6>
  </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) jp-timer <1-65535>
```

Configure ecmp bundle

Use this attribute to create an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
        </instance>
      </instances>
    </ipv6>
  </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) ecmp-bundle WORD
```

Configure enable bfd all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-bfd-all-interfaces><!-- operation="delete"-->
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bfd all-interfaces
```

Configure register reachability check

Use this attribute to enable the RP reachability check for PIM Registers at the designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: register-reachability-check

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
```

```

        <register-reachability-check>enable</register-reachability-check> <!--
operation="delete"-->
    </config>
</register-packet>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) register-rp-reachability (disable|enable)
```

Configure rate limit

Use this attribute to configure the rate of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: rate-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <rate-limit>1</rate-limit> <!-- operation="delete"-->
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv6>
  </pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) register-rate-limit <1-65535>
```

Configure suppress interval

Use this attribute to configure the register suppression time.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: suppress-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 11-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
            <suppress-interval>11</suppress-interval> <!-- operation="delete"-->
          </config>
        </register-packet>
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) register-suppression <11-65535>
```

Configure keep alive interval

Use this attribute to configure a Keep alive Timer (KAT) value for (S,G) states at RP to monitor PIM register packets.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: keep-alive-interval

Attribute Type: uint16

Default Value: 185

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
            <keep-alive-interval>1</keep-alive-interval> <!-- operation="delete"-->
          </config>
        </register-packet>
      </instance>
    </instances>
  </ipv6>
</pim>
```



```

    </config>
  </register-packet>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-register-kat <1-65535>
```

Configure source address

Use this attribute to configure the source address of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <register-packet>
            <config>
              <source-address>PIM_IPV6_REG_SOURCE_T</source-address>
            </config>
          </register-packet>
        </instance>
      </instances>
    </ipv6>
  </pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) register-source (X:X::X:X|IFNAME)
```

Configure accept register

Use this attribute to configure the ACL of register packets accepted by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: accept-register

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <register-packet>
          <config>
            <accept-register>WORD</accept-register> <!-- operation="delete"-->
          </config>
        </register-packet>
      </instance>
    </instances>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) accept-register list WORD
```

Configure ignore rp set priority

Use this attribute to ignore the RP-SET priority value, and use only the hashing mechanism for RP selection. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: ignore-rp-set-priority

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <interop>
          <config>
            </ignore-rp-set-priority><!-- operation="delete"-->
          </config>
        </interop>
      </instance>
    </instances>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) ignore-rp-set-priority
```

Configure cisco bsr interop enable

Use this attribute to turn on or turn the Candidate-RP debugging timer working with Cisco BSR.

Attribute Name: cisco-bsr-interop-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <interop>
          <config>
            </cisco-bsr-interop-enable><!-- operation="delete"-->
          </config>
        </interop>
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) crp-cisco-prefix
```

Configure access control list

Use this attribute to configure the option to calculate the register checksum over the whole packet on multicast groups specified by the access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
```

```

    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <interop>
    <register-packet>
    <config>
      </cisco-register-checksum-enable><!-- operation="delete"-->
      <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
    </config>
  </register-packet>
</interop>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) cisco-register-checksum group-list WORD
```

Configure cisco register checksum enable

Use this attribute to configure the option to calculate the register checksum over the whole packet. This is used to interoperate with older Cisco IOS versions.

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
    <instance>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <interop>
      <register-packet>
      <config>
        </cisco-register-checksum-enable>
      </config>
    </register-packet>
    </interop>
    </instance>
    </instances>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) cisco-register-checksum
```

Configure vrf name

Use this attribute to to enable the ability of the last-hop PIM router to switch to SPT for multicast group addresses indicated by the given standard access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <spt-switch>
          <config>
            </enable><!-- operation="delete"-->
            <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
          </config>
        </spt-switch>
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) spt-threshold group-list WORD
```

Configure enable

Use this attribute to enable the ability of the last-hop PIM router to switch to SPT.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
```

```

<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <spt-switch>
    <config>
      </enable>
    </config>
  </spt-switch>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) spt-threshold
```

Configure range policy

Use this attribute to set Source Specific Multicast (SSM) and define the range of multicast IP addresses. Ranges can be either the default, which defines the SSM range as FF3x::/96, or indicated by the given standard access control list.

This command is supported when following feature are enabled PIM Source Specific Multicast (SSM)

Attribute Name: range-policy

Attribute Type: union

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ssm>
          <config>
            <range-policy>PIM_IPV6_SSM_RANGE_POLICY_TYPE_T</range-policy>
          </config>
        </ssm>
      </instance>
    </instances>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) ssm (range WORD|default)
```

Configure member rp address

Destination IPv6 address where register messages are copied and sent. A Member RP is an individual RP member in the anycast RP set.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: member-rp-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <anycast-rps>
          <anycast-rp> <!-- operation="delete"-->
            <member-rp-address>X:X::X:X</member-rp-address>
            <config>
              <member-rp-address>X:X::X:X</member-rp-address>
              <anycast-rp-address>X:X::X:X</anycast-rp-address>
            </config>
            <anycast-rp-address>X:X::X:X</anycast-rp-address>
          </anycast-rp>
        </anycast-rps>
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) anycast-rp X:X::X:X X:X::X:X
```

Configure embed rp

Use this attribute to embed the PIM Rendezvous Point

Attribute Name: embed-rp

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
```

```

    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <config>
        <embed-rp>enable</embed-rp> <!-- operation="delete"-->
    </config>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) rp embedded (disable|enable)
```

Configure rp address

Use this attribute to statically configure Rendezvous Point (RP) address for multicast groups.

Attribute Name: rp-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <static-rps>
    <static-rps-default>
    <static-rp-default> <!-- operation="delete"-->
        <rp-address>X:X::X:X</rp-address>
        <config>
            <rp-address>X:X::X:X</rp-address>
        </config>
    </static-rp-default>
</static-rps-default>
</static-rps>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>

```


Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X
```

Configure override dynamically learned rp

Use this attribute to configure the flag to override dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <rendezvous-point>
            <static-rps>
              <static-rps-default>
                <static-rp-default>
                  <rp-address>X:X::X:X</rp-address>
                  <config>
                    <rp-address>X:X::X:X</rp-address>
                    <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
                  </config>
                </static-rp-default>
              </static-rps>
            </static-rps-default>
          </static-rps>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv6>
  </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X WORD override
```

Configure static-rp-default access-control-list

Use this attribute to configure the name of access control list (ACL).

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <static-rps>
            <static-rps-default>
              <static-rp-default>
                <rp-address>X:X::X:X</rp-address>
                <config>
                  <rp-address>X:X::X:X</rp-address>
                </config>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
              </static-rp-default>
            </static-rps>
          </static-rps>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X WORD
```

Configure static-rp-default override-dynamically-learned-rp

Use this attribute to configure the flag to override dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```

    <vrf-name>NAME</vrf-name>
  </config>
  <rendezvous-point>
    <static-rps>
      <static-rps-default>
        <static-rp-default>
          <rp-address>X:X::X:X</rp-address>
          <config>
            <rp-address>X:X::X:X</rp-address>
          </config>
          </override-dynamically-learned-rp><!-- operation="delete"-->
        </static-rp-default>
      </static-rps-default>
    </static-rps>
  </rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X override
```

Configure interface name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <bootstrap-router>
            <bsr-candidate>
              <config>
                <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
              </config>
            </bsr-candidate>
          </bootstrap-router>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv6>
</pim>

```

```

</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME
```

Configure hash mask length

Use this attribute to configure the mask length used to calculate the group address for RP.

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <rendezvous-point>
            <bootstrap-router>
              <bsr-candidate>
                <config>
                  <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
                  <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
                </config>
              </bsr-candidate>
            </bootstrap-router>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv6>
  </pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME <0-32>
```

Configure priority

Use this attribute to configure the priority value for candidate BSR router.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <rendezvous-point>
            <bootstrap-router>
              <bsr-candidate>
                <config>
                  <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
                  <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
                  <priority>0</priority> <!-- operation="delete"-->
                </config>
              </bsr-candidate>
            </bootstrap-router>
          </rendezvous-point>
        </instance>
      </instances>
    </ipv6>
  </pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME <0-32> <0-255>
```

Configure bsr-candidate interface-name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <bootstrap-router>
            <bsr-candidate>
              <config>
                <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
              </config>
            </bsr-candidate>
          </bootstrap-router>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME
```

Configure rp-candidates interface-name

Use this attribute to configure the interface name for RP.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <rp-candidates>
            <rp-candidate> <!-- operation="delete"-->
              <interface-name>IFNAME</interface-name>
            </rp-candidate>
          </rp-candidates>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv6>
</pim>

```

```

    </config>
  </rp-candidate>
</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-candidate IFNAME
```

Configure advertisement interval

Use this attribute to configure the priority value for RP candidate.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: advertisement-interval

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <instances>
      <instance>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
          <rp-candidates>
            <rp-candidate>
              <interface-name>IFNAME</interface-name>
              <config>
                <interface-name>IFNAME</interface-name>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
              </config>
              <advertisement-interval>1</advertisement-interval> <!--
operation="delete"-->
            </rp-candidate>
            <priority>0</priority> <!-- operation="delete"-->
          </rp-candidates>
        </rendezvous-point>
      </instance>
    </instances>
  </ipv6>
</pim>

```

```

</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```

ipv6 pim (vrf NAME|) rp-candidate IFNAME (group-list WORD|) (interval <1-16383>|)
(priority <0-255>|)

```

Configure options

Use this attribute to debug the PIM IPv6 feature.

Attribute Name: options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    </config>
    <debug>
      <config>
        <options>all</options> <!-- operation="delete"-->
      </config>
    </debug>
  </instance>
</instances>
</ipv6>
</pim>

```

Command Syntax

```

debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet
out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
bst|timer bsr crp|mib|nsm|nexthop|mtrace)

```

Configure passive enable

PIM IPv6 passive mode.

Attribute Name: passive-enable

Attribute Type: empty

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
        </config>
        </passive-enable><!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (dense-mode|sparse-mode) passive
```

Configure pim mode

PIM IPv6 mode to use when delivering multicast traffic via this interface.

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (dense-mode|sparse-mode)
```

Configure bsr border

When set to true the device will not send bootstrap router messages over this interface. By default these are transmitted over all PIM IPv6 sparse mode (PIM-SM) enabled interfaces.

Attribute Name: bsr-border

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </bsr-border><!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim bsr-border
```

Configure dr priority

The designated router priority of this interface. Larger always preferred.

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <dr-priority>0</dr-priority> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim dr-priority <0-4294967294>
```

Configure hello interval

Use this attribute to configure a hello interval value other than the default. When a hello-interval is configured and hello-holdtime is not configured, or when the hello-holdtime value configured is less than the new hello-interval value, the holdtime value is modified to (3.5 * hello_interval). Otherwise, the hello-holdtime value is the configured value.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-18724

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          <hello-interval>1</hello-interval> <!-- operation="delete"-->
        </interface>
      </interfaces>
    </ipv6>
  </pim>
```

Command Syntax

```
ipv6 pim hello-interval <1-18724>
```

Configure hello holdtime

Use this attribute to configure a hello message holdtime other than the default.

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 105

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
```

```

    <name>WORD</name>
  </config>
  <hello-holdtime>1</hello-holdtime> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim hello-holdtime <1-65535>
```

Configure exclude generated id

Exclude Gen-id option from PIM IPv6 Hello packets on this interface.

Attribute Name: exclude-generated-id

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          </exclude-generated-id><!-- operation="delete"-->
        </interface>
      </interfaces>
    </ipv6>
  </pim>

```

Command Syntax

```
ipv6 pim exclude-genid
```

Configure unicast bootstrap router

Use this attribute to enable support for sending and receiving unicast Bootstrap Messages (BSM) on an interface.

Attribute Name: unicast-bootstrap-router

Attribute Type: empty

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>

```

```

    <name>WORD</name>
  </config>
</unicast-bootstrap-router><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>

```

Command Syntax

```
ipv6 pim unicast-bsm
```

Configure neighbor access control list filter

Use this attribute to enable filtering of neighbors on the interface. When configuring a neighbor filter, PIM IPv6 either not establishes adjacency with neighbor or terminates adjacency with existing neighbors, when denied by filtering access list.

Attribute Name: neighbor-access-control-list-filter

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <neighbor-access-control-list-filter>WORD</neighbor-access-control-list-
filter> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim neighbor-filter WORD
```

Configure state refresh origination interval

Use this attribute to configure a PIM-DM State-Refresh origination interval other than the default value. The origination interval is the number of seconds between PIM-DM State Refresh control messages.

Attribute Name: state-refresh-origination-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 1-100

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <state-refresh-origination-interval>1</state-refresh-origination-interval>
<!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim state-refresh origination-interval <1-100>
```

Configure name

Use this attribute to configure an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```

<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>

```

Command Syntax

```
ipv6 pim bind ecmp-bundle WORD
```

Configure propagation delay

Propagation-delay value.

Attribute Name: propagation-delay

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-32767

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <propagation-delay>0</propagation-delay> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim propagation-delay <0-32767>
```

Configure enable bfd

Use this attribute to configure Bidirectional Forwarding Detection.

Attribute Name: enable-bfd

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <ipv6>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </ipv6>
</pim>
```

Command Syntax

```
ipv6 pim bfd (disable|)
```

clear ipv6 pim (vrf NAME|) (sparse-mode) bsr rp-set *

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv6_pim-ipv6-clear-bsr-rendezvous-point xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <pim-mode>sparse-mode</pim-mode>
</ipi-pim-ipv6_pim-ipv6-clear-bsr-rendezvous-point>
```

Command Syntax

```
clear ipv6 pim (vrf NAME|) (sparse-mode) bsr rp-set *
```

clear ipv6 mroute (vrf NAME|) * pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv6_pim-ipv6-clear-multicast-route xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <pim-mode>dense-mode</pim-mode>
</ipi-pim-ipv6_pim-ipv6-clear-multicast-route>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) * pim (dense-mode|sparse-mode)
```

clear ipv6 mroute (vrf NAME|) X:X::X:X pim sparse-mode

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
</ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X pim sparse-mode
```

clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
<ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group-mode xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
  <source-address>X:X::X:X</source-address>
  <pim-mode>dense-mode</pim-mode>
</ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group-mode>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X pim (dense-mode|sparse-mode)
```

debug pim bfd**Netconf RPC payload**

```
<ipi-pim-debug_pim-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pim"/>
```

Command Syntax

```
debug pim bfd
```

no debug pim bfd

Netconf RPC payload

```
<ipi-pim-debug_pim-terminal-debug-bfd-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim"/>
```

Command Syntax

```
no debug pim bfd
```

debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf RPC payload

```
<ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-on>
```

Command Syntax

```
debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)
```

no debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf RPC payload

```
<ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet
out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
bst|timer bsr crp|mib|nsm|nexthop|mtrace)
```

debug ipv6 pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
</ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-on>
```

Command Syntax

```
debug ipv6 pim (vrf NAME|)
```

no debug ipv6 pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
  <vrf-name>NAME</vrf-name>
</ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-off>
```

Command Syntax

```
no debug ipv6 pim (vrf NAME|)
```

IPI-VXLAN

Configure mac address

Use this attribute to set the mac address with arp-nd refresh-timer

Attribute Name: mac-address

Attribute Type: string

Attribute Name: arp-nd-refresh-timer

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <global>
    <config>
      <arp-nd-refresh-timer>3</arp-nd-refresh-timer> <!-- operation="delete"-->
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
    <!-- operation="delete"-->
    </config>
  </global>
</vxlan>
```

Command Syntax

```
nvo vxlan arp-nd refresh-timer <3-190> mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure enable vxlan

Use this attribute to enable VxLAN module. Without this attribute vxlan functionality can not be achieved

Attribute Name: enable-vxlan

Attribute Type: empty

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <global>
    <config>
      </enable-vxlan>
    </config>
  </global>
</vxlan>
```

Command Syntax

```
nvo vxlan enable
```

Configure vtep ipv4

Use this attribute to set source vtep global ip address. This will be treated at vxlan tunnel source address

Attribute Name: vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <global>
    <config>
      <vtep-ipv4>A.B.C.D</vtep-ipv4> <!-- operation="delete"-->
    </config>
  </global>
</vxlan>
```

Command Syntax

```
nvo vxlan vtep-ip-global A.B.C.D
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Default Value: 300

Attribute Range: 10-572

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <global>
    <config>
      <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
    </config>
  </global>
</vxlan>
```

Command Syntax

```
nvo vxlan mac-ageing-time <10-572>
```

Configure arp nd refresh timer

Use this attribute to configure aging out the arp-cache and nd-cache entries for given time multiplied by 3 in secs.

Attribute Name: arp-nd-refresh-timer

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <global>
    <config>
      <arp-nd-refresh-timer>3</arp-nd-refresh-timer> <!-- operation="delete"-->
    </config>
  </global>
</vxlan>
```

Command Syntax

```
nvo vxlan arp-nd refresh-timer <3-190>
```

Configure traffic direction

Use this attribute to set global direction(ingress/egress) for VxLAN. Ingreess means traffic coming to network side and egress means traffic going out from network side

This command is supported when following feature are enabled QOS feature

Attribute Name: traffic-direction

Attribute Type: enum (ingress|egress)

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <qos-tunnel-mappings>
    <qos-tunnel-mapping> <!-- operation="delete"-->
      <traffic-direction>ingress</traffic-direction>
      <config>
        <traffic-direction>ingress</traffic-direction>
        <qos-map-mode>cos-dscp</qos-map-mode>
        <profile-name>NAME</profile-name>
      </config>
      <qos-map-mode>cos-dscp</qos-map-mode>
    </qos-tunnel-mapping>
  </qos-tunnel-mappings>
</vxlan>
```

Command Syntax

```
nvo vxlan tunnel qos-map-mode (cos-dscp) (ingress|egress) NAME
```

Configure tenant type

Use this attribute to create tenant with multicast tunnel

Attribute Name: tenant-type

Attribute Type: enum (default|multicast|ingress-replication|ingress-replication inner-vid-disabled)

Attribute Name: etree-leaf

Attribute Type: uint8

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </etree-leaf>
    </config>
    <tenant-type>default</tenant-type>
  </vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
nvo vxlan id <1-16777215> ((default|multicast|ingress-replication|ingress-
  replication inner-vid-disabled)|) (etree-leaf|)
```

Configure xconnect identifier

Use this attribute to create Xconnect tenant

Attribute Name: xconnect-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: tenant-xconnect-type

Attribute Type: enum (default|inner-vid-disabled)

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
        <tenant-xconnect-type>default</tenant-xconnect-type>
      </config>
      <xconnect-identifier>1</xconnect-identifier>
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
nvo vxlan id <1-16777215> xconnect target-vxlan-id <1-16777215> ((default|inner-
  vid-disabled)|)
```

Configure vrf name

Use this attribute to map VRF to carry EVPN routes. This defines BGP as the mechanism for host reachability advertisement.

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <vrf-name>NAME</vrf-name> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
vxlan host-reachability-protocol evpn-bgp NAME
```

Configure map network

Use this attribute to map a tunnel to the tenant

Attribute Name: map-network

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <map-network>NAME</map-network> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
vxlan map-network tunnel NAME
```

Configure mac hold timer

Use this attribute to set the time a host mac entry will persist after unconfiguring. Hold time range -1 to 300 in seconds. -1(never expire)

Attribute Name: mac-hold-timer

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <mac-hold-timer>-1</mac-hold-timer> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure tenant description

Use this attribute to set VxLAN identifier name

Attribute Name: tenant-description

Attribute Type: string

Attribute Range: 1-10

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
vni-name WORD
```

Configure irb name

Use this attribute to configure default gateway behavior on a VTEP for particular VNID.

Attribute Name: irb-name

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <irb-name>NAME</irb-name> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
evpn NAME
```

Configure evi learning limit

Attach (EVPN-VxLAN) EVI MAC learning limit profile

Attribute Name: evi-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
      <evi-learning-limit>PROFILENAME</evi-learning-limit> <!-- operation="delete"-->
    </vxlan-tenant>
  </vxlan-tenants>
</vxlan>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure irb advertise host route

Use this attribute to set advertise host to route

Attribute Name: irb-advertise-host-route

Attribute Type: empty

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
    </vxlan-tenant>
  </vxlan-tenants>
  <irb>
    <config>
      </irb-advertise-host-route><!-- operation="delete"-->
    </config>
  </irb>
</vxlan>
```

Command Syntax

```
evpn irb-advertise-host-route
```

Configure vxlan identifier

Use this attribute to know MAC address of the host.create a static route to reach a destination MAC in the VXLAN forwarding table. This command helps to supports different tenants so that they can have the same MAC/IP, but different VNIDs.This command is required for unicast tunnels to map the remote VTEP

Attribute Name: mac-address

Attribute Type: string

Attribute Name: remote-vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-tenants>
    <vxlan-tenant>
      <vxlan-identifier>1</vxlan-identifier>
      <config>
        <vxlan-identifier>1</vxlan-identifier>
      </config>
    </vxlan-tenant>
  </vxlan-tenants>
  <static-tenants>
    <static-tenant> <!-- operation="delete"-->
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
      <config>
        <mac-address>CML_MAC_ADDR_T</mac-address>
        <remote-vtep-ipv4>A.B.C.D</remote-vtep-ipv4>
      </config>
    </static-tenant>
  </static-tenants>
</vxlan>
```

```

</static-tenant>
</static-tenants>
</vxlan-tenant>
</vxlan-tenants>
</vxlan>

```

Command Syntax

```

vxlan static-entry host-mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
    remote-vtep-ip A.B.C.D

```

Configure address

VTEP ip address

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vtep-entries>
    <vtep-entry> <!-- operation="delete"-->
      <address>A.B.C.D</address>
      <config>
        <address>A.B.C.D</address>
      </config>
    </vtep-entry>
  </vtep-entries>
</vxlan>

```

Command Syntax

```

nvo vxlan vtep-info A.B.C.D

```

Configure description

VTEP description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```

<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vtep-entries>
    <vtep-entry>
      <address>A.B.C.D</address>
      <config>
        <address>A.B.C.D</address>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </vtep-entry>
  </vtep-entries>
</vxlan>

```

```
</vtep-entries>
</vxlan>
```

Command Syntax

```
description LINE
```

Configure redund type

VTEP redundancy type

Attribute Name: redund-type

Attribute Type: enum (s-home|m-home|mclag|sh-mh|sh-mclag|other)

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vtep-entries>
    <vtep-entry>
      <address>A.B.C.D</address>
      <config>
        <address>A.B.C.D</address>
      </config>
      <redund-type>s-home</redund-type> <!-- operation="delete"-->
    </vtep-entry>
  </vtep-entries>
</vxlan>
```

Command Syntax

```
redund-type (s-home|m-home|mclag|sh-mh|sh-mclag|other)
```

clear mac address-table dynamic vxlan

Netconf RPC payload

```
<clear-nvo-vxlan-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-vxlan"/>
```

Command Syntax

```
clear mac address-table dynamic vxlan
```

clear mac address-table dynamic vxlan vnid <1-16777215> (address MACADDR|)

Attribute Name: vxlan-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
<clear-nvo-vxlan-dynamic-mac-address-table-vnid xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-vxlan">
  <vxlan-identifier>1</vxlan-identifier>
  <mac-address>MACADDR</mac-address>
</clear-nvo-vxlan-dynamic-mac-address-table-vnid>
```

Command Syntax

```
clear mac address-table dynamic vxlan vnid <1-16777215> (address MACADDR|)
```

clear nvo vxlan tunnels

Netconf RPC payload

```
<clear-nvo-vxlan-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan"/>
>
```

Command Syntax

```
clear nvo vxlan tunnels
```

clear nvo vxlan tunnels dst-ip A.B.C.D

Attribute Name: destination-vtep-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-nvo-id-vxlan-tunnels-destip xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
  <destination-vtep-ip>A.B.C.D</destination-vtep-ip>
</clear-nvo-id-vxlan-tunnels-destip>
```

Command Syntax

```
clear nvo vxlan tunnels dst-ip A.B.C.D
```

clear nvo vxlan mac-stale-entries (vnid <1-16777215>|)

Attribute Name: vxlan-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf RPC payload

```
<clear-nvo-vxlan-mac-stale-entries xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
  <vxlan-identifier>1</vxlan-identifier>
</clear-nvo-vxlan-mac-stale-entries>
```

Command Syntax

```
clear nvo vxlan mac-stale-entries (vnid <1-16777215>|)
```

clear nvo vxlan counters access-port port IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-vxlan-untagged-access-port-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-vxlan">
  <interface-name>IFNAME</interface-name>
</clear-vxlan-untagged-access-port-counters>
```

Command Syntax

```
clear nvo vxlan counters access-port port IFNAME
```

clear nvo vxlan counters access-port all

Netconf RPC payload

```
<clear-vxlan-access-port-counters-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-vxlan"/>
```

Command Syntax

```
clear nvo vxlan counters access-port all
```

clear nvo vxlan counters network-port dst A.B.C.D

Attribute Name: destination-vtep-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-vxlan-network-port-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
  <destination-vtep-ip>A.B.C.D</destination-vtep-ip>
</clear-vxlan-network-port-counters>
```

Command Syntax

```
clear nvo vxlan counters network-port dst A.B.C.D
```

clear nvo vxlan counters network-port all

Netconf RPC payload

```
<clear-vxlan-network-port-counters-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-vxlan"/>
```

Command Syntax

```
clear nvo vxlan counters network-port all
```

IPI-ETHERNET-VPN

Configure esi hold time

Use this attribute to set time before ESI can be made up on enabling evpn

Attribute Name: esi-hold-time

Attribute Type: uint32

Attribute Range: 10-300

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <multi-homing>
    <config>
      <esi-hold-time>10</esi-hold-time> <!-- operation="delete"-->
    </config>
  </multi-homing>
</evpn>
```

Command Syntax

```
evpn esi hold-time <10-300>
```

Configure enable vxlan multihoming

Use this attribute to enable multihoming module on vxlan. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-vxlan-multihoming

Attribute Type: uint8

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-vxlan-multihoming><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn multihoming enable
```

Configure global enable-vxlan-multihoming

Use this attribute to enable multihoming module on vxlan. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-vxlan-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-vxlan-multihoming><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn vxlan multihoming enable
```

Configure enable evpn mpls multihoming

Use this attribute to enable multihoming module on evpn mpls. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-evpn-mpls-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-evpn-mpls-multihoming><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn mpls multihoming enable
```

Configure enable evpn srv6 multihoming

Use this attribute to enable multihoming module on EVPN SRv6. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-evpn-srv6-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-evpn-srv6-multihoming><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn srv6 multihoming enable
```

Configure enable irb

Use this attribute to enable integrated routing and bridging module. Without this attribute IRB functionality can not be achieved

Attribute Name: enable-irb

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-irb><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
nvo vxlan irb
```

Configure enable mpls irb

Use this attribute to enable integrated routing and bridging module. Without this attribute IRB functionality can not be achieved

Attribute Name: enable-mpls-irb

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-mpls-irb><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn mpls irb
```

Configure enable evpn etree

Use this attribute to enable evpn etree module on evpn mpls or vxlan.

Attribute Name: enable-evpn-etree

Attribute Type: enum (enable|enable scenario-2)

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      <enable-evpn-etree>enable</enable-evpn-etree> <!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn etree (enable|enable scenario-2)
```

Configure enable evpn storm control

Use this attribute to enable evpn arp/nd storm-control on evpn mpls or vxlan.

Attribute Name: enable-evpn-storm-control

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </enable-evpn-storm-control><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn arp-nd-storm-control-enable
```

Configure mac seq zero handle

Use this attribute to ignore MAC Advertisement Route (Type 2) with sequence 0 from other PE if higher sequence exists

Attribute Name: mac-seq-zero-handle

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <global>
    <config>
      </mac-seq-zero-handle><!-- operation="delete"-->
    </config>
  </global>
</evpn>
```

Command Syntax

```
evpn mac-seq-zero-handle
```

Configure mac address

Use this attribute to configure common anycast mac-address for all IRB interfaces

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <irb-forwarding>
    <config>
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
<!-- operation="delete"-->
    </config>
  </irb-forwarding>
</evpn>
```

Command Syntax

```
evpn irb-forwarding anycast-gateway-mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure gateway mac

Use this attribute to configure anycast mac-address for an IRB interface

Attribute Name: gateway-mac

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <irb-forwarding>
    <irb-interfaces>
      <irb-interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          </gateway-mac><!-- operation="delete"-->
        </irb-interface>
      </irb-interfaces>
    </irb-forwarding>
  </evpn>
```

Command Syntax

```
evpn irb-if-forwarding anycast-gateway-mac
```

Configure freeze time

Set the time in terms of seconds

Attribute Name: freeze-time

Attribute Type: uint32

Default Value: 300

Attribute Range: 60-86400

Attribute Name: max-mac-move-count

Attribute Type: uint8

Attribute Range: 5-100

Attribute Name: duration

Attribute Type: uint16

Default Value: 180

Attribute Range: 180-3600

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <mac-move-count>
    <config>
      <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
      <duration>180</duration> <!-- operation="delete"-->
      <freeze-time>60</freeze-time> <!-- operation="delete"-->
    </config>
  </mac-move-count>
</evpn>

```

Command Syntax

```
evpn mac-move-count <5-100> duration <180-3600> freeze-time <60-86400>
```

Configure max mac move count

Use this attribute to set the max MAC move count

Attribute Name: max-mac-move-count

Attribute Type: uint8

Attribute Range: 5-100

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <mac-move-count>
    <config>
      <max-mac-move-count>5</max-mac-move-count>
    </config>
  </mac-move-count>
</evpn>

```

Command Syntax

```
evpn mac-move-count <5-100>
```

Configure duration

Set the time in terms of seconds

Attribute Name: duration

Attribute Type: uint16

Default Value: 180

Attribute Range: 180-3600

Attribute Name: max-mac-move-count

Attribute Type: uint8

Attribute Range: 5-100

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <mac-move-count>
    <config>
      <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
      <duration>180</duration> <!-- operation="delete"-->
    </config>
  </mac-move-count>
</evpn>
```

Command Syntax

```
evpn mac-move-count <5-100> duration <180-3600>
```

Configure mac-move-count freeze-time

Set the time in terms of seconds

Attribute Name: freeze-time

Attribute Type: uint32

Default Value: 300

Attribute Range: 60-86400

Attribute Name: max-mac-move-count

Attribute Type: uint8

Attribute Range: 5-100

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <mac-move-count>
    <config>
      <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
      <freeze-time>60</freeze-time> <!-- operation="delete"-->
    </config>
  </mac-move-count>
</evpn>
```

Command Syntax

```
evpn mac-move-count <5-100> freeze-time <60-86400>
```

Configure redundancy mode

Use this attribute to configure load balancing type

Attribute Name: redundancy-mode

Attribute Type: enum (single-active|port-active)

Attribute Name: evpn-segment-id

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        <evpn-segment-id>XX:XX:XX:XX:XX:XX:XX:XX</evpn-segment-id> <!--
operation="delete"-->
      </config>
      <redundancy-mode>single-active</redundancy-mode> <!-- operation="delete"-->
    </interface>
  </interfaces>
</evpn>
```

Command Syntax

```
evpn multi-homed esi XX:XX:XX:XX:XX:XX:XX:XX (load-balancing (single-
active|port-active) |)
```

Configure name

Use this attribute to configure load balancing type

Attribute Name: redundancy-mode

Attribute Type: enum (single-active|port-active)

Attribute Name: system-mac

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        <system-mac>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</system-mac>
      <!-- operation="delete"-->
    </interface>
  </interfaces>
</evpn>
```

```

    </config>
    <redundancy-mode>single-active</redundancy-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</evpn>

```

Command Syntax

```

evpn multi-homed system-mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
  (load-balancing (single-active|port-active) |)

```

Configure evpn mac holdtime

Use this attribute to set the evpn mac hold time

Attribute Name: evpn-mac-holdtime

Attribute Type: uint32

Attribute Range: 1-600

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <evpn-mac-holdtime>1</evpn-mac-holdtime> <!-- operation="delete"-->
</interface>
</interfaces>
</evpn>

```

Command Syntax

```

evpn-mac-holdtime <1-600>

```

Configure service carving

Use this attribute to create or delete service-carving configuration

This command is supported when following feature are enabled DUNE feature

Attribute Name: service-carving

Attribute Type: enum (preference-based|auto)

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>

```



```

    </config>
  <mh-load-balance-esi>
    <config>
      <service-carving>preference-based</service-carving>
    </config>
  </mh-load-balance-esi>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
service-carving (preference-based|auto)
```

Configure preference weight

Use this attribute to add preference to which should be elected as DF

This command is supported when following feature are enabled DUNE feature

Attribute Name: preference-weight

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mh-load-balance-esi>
      <config>
        <preference-weight>1</preference-weight> <!-- operation="delete"-->
      </config>
    </mh-load-balance-esi>
  </interface>
</interfaces>
</evpn>

```

Command Syntax

```
service-carving weight <1-65535>
```

Configure ac driven

Use this attribute to set AC Influenced DF capability

This command is supported when following feature are enabled DUNE feature

Attribute Name: ac-driven

Attribute Type: empty

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mh-load-balance-esi>
    <config>
      </ac-driven><!-- operation="delete"-->
    </config>
    </mh-load-balance-esi>
  </interface>
</interfaces>
</evpn>

```

Command Syntax

```
service-carving ac-driven
```

Configure access if

evpn-mpls access port

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
    <access-interface> <!-- operation="delete"-->
      <access-if>access-if</access-if>
    <config>
      <access-if>access-if</access-if>
    </config>
    </access-interface>
  </access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

(access-if-evpn)

Configure dynamic learning disable

Use this attribute to disable dynamic learning of MACs and MAC/IP at the access port

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: dynamic-learning-disable

Attribute Type: empty

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
      <access-interface>
        <access-if>access-if</access-if>
        <config>
          <access-if>access-if</access-if>
          </dynamic-learning-disable><!-- operation="delete"-->
        </config>
      </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>

```

Command Syntax

dynamic-learning disable

Configure arp nd flood suppress

Use this attribute to restrict the flood of ARP/ND packets towards remote VTEPs or other access ports

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: arp-nd-flood-suppress

Attribute Type: empty

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>

```

```

        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
    </arp-nd-flood-suppress><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
arp-nd flood-suppress
```

Configure cos

Use this attribute to set CoS for the ARP/ND proxy reply

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: cos

Attribute Type: int16

Attribute Range: 0-7

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
    <cos>0</cos> <!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
arp-nd cos <0-7>
```

Configure arp cache disable

Use this attribute to disable the ARP cache for MAC/IP

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: arp-cache-disable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
      <access-interface>
        <access-if>access-if</access-if>
        <config>
          <access-if>access-if</access-if>
        </config>
        </arp-cache-disable><!-- operation="delete"-->
      </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>
```

Command Syntax

```
arp-cache disable
```

Configure nd cache disable

Use this attribute to disable ND-cache on access interface

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: nd-cache-disable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
```

```

    <name>WORD</name>
  </config>
<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <config>
    <access-if>access-if</access-if>
  </config>
  </nd-cache-disable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
nd-cache disable
```

Configure mac hold time

Use this attribute to set the time a host MAC entry will persist after unconfig

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-hold-time

Attribute Type: int16

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  <access-interfaces>
  <access-interface>
    <access-if>access-if</access-if>
    <config>
      <access-if>access-if</access-if>
    </config>
    <mac-hold-time>-1</mac-hold-time> <!-- operation="delete"-->
  </access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure access-interface mac-address

Use this attribute to configure static MAC only Host under Access Circuit

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
      <access-interface>
        <access-if>access-if</access-if>
        <config>
          <access-if>access-if</access-if>
        </config>
        <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
      <!-- operation="delete"-->
    </access-interface>
  </access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure garp gna enable

Use this attribute to allow garp-gna packets advertisement

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: garp-gna-enable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
```

```

    <config>
      <name>WORD</name>
    </config>
  <access-interfaces>
    <access-interface>
      <access-if>access-if</access-if>
      <config>
        <access-if>access-if</access-if>
      </config>
      </garp-gna-enable><!-- operation="delete"-->
    </access-interface>
  </access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
garp-gna enable
```

Configure llf enable

This attribute is used to enable link loss forwarding on subif

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: llf-enable

Attribute Type: empty

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
      <access-interface>
        <access-if>access-if</access-if>
        <config>
          <access-if>access-if</access-if>
        </config>
        </llf-enable><!-- operation="delete"-->
      </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>

```

Command Syntax

```
llf-enable
```

Configure ac learning limit

Attach MAC learning limit profile for EVPN AC

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: ac-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
    <access-interface>
      <access-if>access-if</access-if>
      <config>
        <access-if>access-if</access-if>
      </config>
      <ac-learning-limit>PROFILENAME</ac-learning-limit> <!-- operation="delete"-->
    </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure evpn identifier

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</evpn>
```

```

<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <config>
    <access-if>access-if</access-if>
  </config>
  <evpn-id-mappings>
  <config>
    <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
  </config>
</evpn-id-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
map evpn mpls id <1-16777215>
```

Configure evpn-id-mappings evpn-identifier

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <config>
    <access-if>access-if</access-if>
  </config>
  <evpn-id-mappings>
  <config>
    <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
  </config>
</evpn-id-mappings>
</access-interface>

```

```

</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
map vpn-id <1-16777215>
```

Configure evpn etree leaf

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: evpn-etree-leaf

Attribute Type: uint8

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <config>
    <access-if>access-if</access-if>
  </config>
  <evpn-id-mappings>
  <config>
    </evpn-etree-leaf><!-- operation="delete"-->
    <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
  </config>
</evpn-id-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
map vpn-id <1-16777215> (etree-leaf|)
```

Configure ipv4 address

Use this attribute to configure static MAC address of the host

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
    <access-interface>
      <access-if>access-if</access-if>
      <config>
        <access-if>access-if</access-if>
      </config>
      <ipv4-host-mac-mappings>
      <ipv4-host-mac-mapping> <!-- operation="delete"-->
        <ipv4-address>A.B.C.D</ipv4-address>
        <config>
          <ipv4-address>A.B.C.D</ipv4-address>
          <mac-address>CML_MAC_ADDR_T</mac-address>
        </config>
        <mac-address>CML_MAC_ADDR_T</mac-address>
      </ipv4-host-mac-mapping>
    </ipv4-host-mac-mappings>
    </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>
```

Command Syntax

```
mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ip IP-ADDRESS
```

Configure interfaces name

Reference to interface name

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: name

Attribute Type: string

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Attribute Name: mac-address

Attribute Type: string

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <access-interfaces>
      <access-interface>
        <access-if>access-if</access-if>
        <ipv4-host-mac-mappings>
          <ipv4-host-mac-mapping>
            <mac-address>CML_MAC_ADDR_T</mac-address>
            <ipv4-address>A.B.C.D</ipv4-address>
          </ipv4-host-mac-mapping>
        </ipv4-host-mac-mappings>
      </access-interface>
    </access-interfaces>
  </interface>
</interfaces>
</evpn>
```

Command Syntax

```
evpn mpls mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ip IP-ADDRESS
```

Configure ipv6 address

Use this attribute to configure static MAC address of the host

This command is supported when following feature are enabled Sub Interface feature,NVO feature,IPV6 feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</evpn>
```

```

<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <config>
    <access-if>access-if</access-if>
  </config>
  <ipv6-host-mac-mappings>
  <ipv6-host-mac-mapping> <!-- operation="delete"-->
    <ipv6-address>IPv6-ADDRESS</ipv6-address>
    <config>
      <ipv6-address>IPv6-ADDRESS</ipv6-address>
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-
address>
    </config>
    <mac-address>CML_MAC_ADDR_T</mac-address>
  </ipv6-host-mac-mapping>
</ipv6-host-mac-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```
mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ipv6 IPv6-ADDRESS
```

Configure interfaces name

Reference to interface name

This command is supported when following feature are enabled Sub Interface feature,NVO feature,IPV6 feature

Attribute Name: name

Attribute Type: string

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Attribute Name: mac-address

Attribute Type: string

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface> <!-- operation="delete"-->
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>

```

```

<access-interfaces>
<access-interface>
  <access-if>access-if</access-if>
  <ipv6-host-mac-mappings>
  <ipv6-host-mac-mapping>
    <mac-address>CML_MAC_ADDR_T</mac-address>
    <ipv6-address>IPv6-ADDRESS</ipv6-address>
  </ipv6-host-mac-mapping>
</ipv6-host-mac-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>

```

Command Syntax

```

evpn mpls mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ipv6 IPv6-
ADDRESS

```

Configure service type

Use this attribute to configure Vlan-Based EVPN-Service Type

Attribute Name: service-type

Attribute Type: enum (vlan-based|vlan-aware-bundle)

Netconf edit-config payload

```

<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <service-type>vlan-based</service-type> <!-- operation="delete"-->
</vrf>
</vrfs>
</evpn>

```

Command Syntax

```

evpn-vlan-service (vlan-based|vlan-aware-bundle)

```

IPI-TFO

Configure admin status

Use this attribute to enable or disable trigger failover (TFO).TFO can be enabled only if the bridge mode is STP or RSTP.

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
  <config>
    <admin-status>disable</admin-status> <!-- operation="delete"-->
  </config>
</trigger-failover>
```

Command Syntax

```
tfo (disable|enable)
```

Configure link type

Use this attribute to make a port an uplink or downlink.

Attribute Name: link-type

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
  <interfaces>
    <interface>
      <name>IFNAME</name>
      <config>
        <name>WORD</name>
      </config>
      <link-type>uplink</link-type> <!-- operation="delete"-->
    </interface>
  </interfaces>
</trigger-failover>
```

Command Syntax

```
link-type (uplink|downlink)
```

Configure fog id

Use this attribute to Create or delete a failover group (FOG) on interface.

Attribute Name: fog-id

Attribute Type: uint32

Attribute Range: 1-64

Attribute Name: group-type

Attribute Type: enum (mpg|cpg)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
```



```

<interfaces>
<interface>
  <name>IFNAME</name>
  <config>
    <name>WORD</name>
  </config>
<tfo-groups>
<tfo-group> <!-- operation="delete"-->
  <fog-id>1</fog-id>
  <config>
    <fog-id>1</fog-id>
    <group-type>mpg</group-type>
  </config>
</tfo-group>
</tfo-groups>
</interface>
</interfaces>
</trigger-failover>

```

Command Syntax

```
fog <1-64> type (mpg|cpg)
```

Configure group id

Use this attribute to Create or delete a failover group (FOG).

Attribute Name: group-id

Attribute Type: uint32

Attribute Range: 1-64

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<failover-groups>
<failover-group> <!-- operation="delete"-->
  <group-id>1</group-id>
  <config>
    <group-id>1</group-id>
    <admin-status>disable</admin-status>
  </config>
</failover-group>
</failover-groups>
</trigger-failover>

```

Command Syntax

```
fog <1-64> (disable|enable)
```

Configure failover trigger count

Use this attribute to set the number of links to trigger failover for a Monitor Port Groups (MPG).

Attribute Name: failover-trigger-count

Attribute Type: uint32

Attribute Range: 0-63

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
  <failover-groups>
    <failover-group>
      <group-id>1</group-id>
      <config>
        <group-id>1</group-id>
      </config>
      <failover-trigger-count>0</failover-trigger-count> <!-- operation="delete"-->
    </failover-group>
  </failover-groups>
</trigger-failover>
```

Command Syntax

```
fog <1-64> tfc <0-63>
```

clear tfo counter

Netconf RPC payload

```
<tfo-clear-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo"/>
```

Command Syntax

```
clear tfo counter
```

clear tfo counter fog <1-64>

Attribute Name: group-id

Attribute Type: uint32

Attribute Range: 1-64

Netconf RPC payload

```
<tfo-clear-fog-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
  <group-id>1</group-id>
</tfo-clear-fog-counters>
```

Command Syntax

```
clear tfo counter fog <1-64>
```

IPI-LOGGING

Configure severity level

Use this attribute to set the severity level that a message for a specific module must reach before the messages is logged. Default value is 2-critical.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <logging-modules>
    <module-logging>
      <module-name>auth</module-name>
      <config>
        <module-name>auth</module-name>
        </config>
        <severity-level>2</severity-level>
      </module-logging>
    </logging-modules>
  </logging>
```

Command Syntax

```
logging level
(auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp
|rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
((0|1|2|3|4|5|6|7) |)
```

Configure enable logging

Use this attribute to set severity level of logging monitor. Default value is 7-debug-details.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 7

Attribute Name: enable-logging

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <monitor-logging>
    <config>
      <enable-logging>enable</enable-logging> <!-- operation="delete"-->
      <severity-level>7</severity-level> <!-- operation="delete"-->
    </config>
  </monitor-logging>
```

```
</logging>
```

Command Syntax

```
logging monitor ((disable)|) ((0|1|2|3|4|5|6|7)|)
```

Configure console-logging severity-level

Use this attribute to set severity level of logging console. Default value is 2-critical.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 2

Attribute Name: enable-logging

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <console-logging>
    <config>
      <enable-logging>enable</enable-logging> <!-- operation="delete"-->
      <severity-level>2</severity-level> <!-- operation="delete"-->
    </config>
  </console-logging>
</logging>
```

Command Syntax

```
logging console ((disable)|) ((0|1|2|3|4|5|6|7)|)
```

Configure max file size

Set size of the log file in bytes. Default value is 419430400 bytes.

Attribute Name: max-file-size

Attribute Type: uint32

Attribute Range: 4096-419430400

Attribute Name: file-name

Attribute Type: string

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <logfile>
    <config>
      <file-name>LOGFILENAME</file-name> <!-- operation="delete"-->
      <severity-level>6</severity-level> <!-- operation="delete"-->
      <max-file-size>4096</max-file-size> <!-- operation="delete"-->
    </config>
  </logfile>
</logging>
```

```
</config>
</logfile>
</logging>
```

Command Syntax

```
logging logfile LOGFILENAME (0|1|2|3|4|5|6|7) size <4096-419430400>
```

Configure file name

Use this attribute to set name of the logging file.

Attribute Name: file-name

Attribute Type: string

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <logfile>
    <config>
      <severity-level>6</severity-level>
      <file-name>LOGFILENAME</file-name>
    </config>
  </logfile>
</logging>
```

Command Syntax

```
logging logfile LOGFILENAME (0|1|2|3|4|5|6|7)
```

Configure debug-logfile max-file-size

Set size of the debug log file in bytes. The default value is 4194304 bytes.

Attribute Name: max-file-size

Attribute Type: uint32

Attribute Range: 4096-4194304

Attribute Name: file-name

Attribute Type: string

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <debug-logfile>
    <config>
      <file-name>LOGFILE</file-name>
      <max-file-size>4096</max-file-size>
    </config>
  </debug-logfile>
</logging>
```

Command Syntax

```
debug logfile LOGFILE size <4096-4194304>
```

Configure timestamp granularity

Use this attribute to set the logging timestamp granularity.

This command is supported when following feature are enabled syslog feature

Attribute Name: timestamp-granularity

Attribute Type: enum (none|microseconds|milliseconds|seconds)

Default Value: milliseconds

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <syslog>
    <config>
      <timestamp-granularity>milliseconds</timestamp-granularity> <!--
operation="delete"-->
    </config>
  </syslog>
</logging>
```

Command Syntax

```
logging timestamp (none|microseconds|milliseconds|seconds|)
```

Configure cli timestamp

Use this attribute to display execution timestamp in show output

This command is supported when following feature are enabled syslog feature

Attribute Name: cli-timestamp

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <syslog>
    <config>
      </cli-timestamp><!-- operation="delete"-->
    </config>
  </syslog>
</logging>
```

Command Syntax

```
cli timestamp
```

Configure disable all modules debug

Use this attribute to unset debug globally

Attribute Name: disable-all-modules-debug

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <global>
    <config>
      </disable-all-modules-debug><!-- operation="delete"-->
    </config>
  </global>
</logging>
```

Command Syntax

```
no debug all
```

Configure enable

Use this attribute to enable a BDR feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
    <config>
      </enable>
    </config>
  </background-debug>
</logging>
```

Command Syntax

```
background-debug
```

Configure buffer size

Use this attribute to set the BDR module internal buffer size in MB

Attribute Name: buffer-size

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-10

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
    <config>
      <buffer-size>1</buffer-size> <!-- operation="delete"-->
    </config>
  </background-debug>
</logging>
```

```
</background-debug>
</logging>
```

Command Syntax

```
buffer-size <1-10>
```

Configure module name

Use this attribute to set the module name of process to be logged.

Attribute Name: module-name

Attribute Type: enum

(auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrrib|nsm|onm|oam|ospf|ospf6|ptp|rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging> <!-- operation="delete"-->
    <module-name>auth</module-name>
    <config>
      <module-name>auth</module-name>
    </config>
  </bdr-module-logging>
</bdr-module-loggings>
</background-debug>
</logging>
```

Command Syntax

```
log
  (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrrib|nsm|onm|oam|ospf|ospf6|ptp
  |rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
```

Configure bdr-module-logging severity-level

Use this attribute to set the severity level that a message for a specific module must reach before the messages is logged. Default value is 7.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 7

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging>
    <module-name>auth</module-name>
    <config>
```



```

    <module-name>auth</module-name>
  </config>
  <severity-level>7</severity-level> <!-- operation="delete"-->
</bdr-module-logging>
</bdr-module-loggings>
</background-debug>
</logging>

```

Command Syntax

```
level (0|1|2|3|4|5|6|7)
```

Configure suppress non bdr logs

This feature indicates that the BDR debug is enabled and suppressed other logging

Attribute Name: suppress-non-bdr-logs

Attribute Type: empty

Netconf edit-config payload

```

<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging>
    <module-name>auth</module-name>
  </config>
    <module-name>auth</module-name>
  </config>
  </suppress-non-bdr-logs><!-- operation="delete"-->
</bdr-module-logging>
</bdr-module-loggings>
</background-debug>
</logging>

```

Command Syntax

```
suppress-non-bdr-logs
```

Configure disable suppress repeated logs

This attribute indicates repeated logs are suppressed for BDR

Attribute Name: disable-suppress-repeated-logs

Attribute Type: empty

Netconf edit-config payload

```

<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging>
    <module-name>auth</module-name>
  </config>

```

```
<module-name>auth</module-name>
</config>
</disable-suppress-repeated-logs><!-- operation="delete"-->
</bdr-module-logging>
</bdr-module-loggings>
</background-debug>
</logging>
```

Command Syntax

```
disable-suppress-repeated-logs
```

no debug all

Netconf RPC payload

```
<terminal-debug-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
no debug all
```

clear debug logfile

Netconf RPC payload

```
<logging-clear-debug-logfile xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
clear debug logfile
```

clear logging logfile

Netconf RPC payload

```
<logging-clear-logging-logfile xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
clear logging logfile
```

remove file (techsupport) (all|FILENAME)

Attribute Name: file_type

Attribute Type: enum (techsupport)

Attribute Name: filename

Attribute Type: union

Netconf RPC payload

```
<remove-file xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <file_type>techsupport</file_type>
  <filename>FILE_TYPE_T</filename>
</remove-file>
```

Command Syntax

```
remove file (techsupport) (all|FILENAME)
```

IPI-LOGGING-REMOTE

Configure enable

This attribute enables/disables the logging host debug.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <debug>
  <config>
    </enable><!-- operation="delete"-->
  </config>
</debug>
</logging>
```

Command Syntax

```
debug logging host
```

Configure enable rsyslog

Enable/disable the rsyslog feature

Attribute Name: enable-rsyslog

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <remote-logging>
  <config>
    </enable-rsyslog><!-- operation="delete"-->
  </config>
</remote-logging>
</logging>
```

Command Syntax

```
feature rsyslog
```

Configure port

Use this attribute to configure the syslog server UDP port. Default value is 514

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: port

Attribute Type: uint16

Attribute Range: 1024-65535

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <remote-logging>
    <remote-servers>
      <remote-server>
        <vrf>NAME</vrf>
        <config>
          <vrf>NAME</vrf>
        </config>
        <servers>
          <server>
            <address>A.B.C.D</address>
            <config>
              <address>1</address>
              <severity>7</severity> <!-- operation="delete"-->
            </config>
            <port>1024</port> <!-- operation="delete"-->
          </server>
        </servers>
      </remote-server>
    </remote-servers>
  </remote-logging>
</logging>
```

Command Syntax

```
logging remote server (A.B.C.D|X:X::X:X|HOSTNAME) ((0|1|2|3|4|5|6|7)|) port <1024-65535> (vrf (NAME|management)|)
```

Configure severity

This attribute is used to specify the kind of messages by severity level. The default value is debug-detail. The possible values for levels are as follows: [Operator] 0-emerg; 1-alert; 2-critical; 3-error; 4-notify; 5-info [Debug] 3-error; 4-warning; 5-notif; 6-debug-info; 7-debug-detail

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```

<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <remote-logging>
    <remote-servers>
      <remote-server>
        <vrf>NAME</vrf>
        <config>
          <vrf>NAME</vrf>
        </config>
      </remote-server>
    </remote-servers>
  </remote-logging>
</logging>

```

Command Syntax

```

logging remote server (A.B.C.D|X:X::X:X|HOSTNAME) ((0|1|2|3|4|5|6|7)|) (vrf
(NAME|management)|)

```

Configure disable default instance

Use this attribute to prevent default rsyslog config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```

<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <remote-logging>
    <default-instance>
      <config>
        </disable-default-instance><!-- operation="delete"-->
      </config>
    </default-instance>
  </remote-logging>
</logging>

```

Command Syntax

```

logging remote disable-default

```

Configure remote server facility

This attribute is used to specify the facility level used by syslog messages. The default value is local7. The possible values are local0, local1, local2, local3, local4, local5, local6, local7 and user.

Attribute Name: remote-server-facility

Attribute Type: enum (local0|local1|local2|local3|local4|local5|local6|local7|user)

Default Value: local7

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <global>
    <config>
      <remote-server-facility>local7</remote-server-facility> <!--
operation="delete"-->
    </config>
  </global>
</logging>
```

Command Syntax

```
logging remote facility
(local0|local1|local2|local3|local4|local5|local6|local7|user)
```

Configure remote authpriv facility

Enable/disable logging authpriv facility for remote syslog server.

Attribute Name: remote-authpriv-facility

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <global>
    <config>
      </remote-authpriv-facility><!-- operation="delete"-->
    </config>
  </global>
</logging>
```

Command Syntax

```
logging remote authpriv
```

IPI-LOGGING-CLI

Configure enable logging

Use this attribute to enable/disable CLI history logs. By default CLI history is enabled.

Attribute Name: enable-logging

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <cli-logging>
    <config>
      <enable-logging>true</enable-logging> <!-- operation="delete"-->
    </config>
  </cli-logging>
</logging>
```

Command Syntax

```
logging cli
```

Configure cli-logging enable-logging

Use this attribute to enable/disable CLI history logs. By default CLI history is enabled.

Attribute Name: enable-logging

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <cli-logging>
    <config>
      <enable-logging>true</enable-logging> <!-- operation="delete"-->
    </config>
  </cli-logging>
</logging>
```

Command Syntax

```
no logging cli
```

IPI-EVENT-MANAGER

Configure feature

Enable Event Manager

Attribute Name: feature

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
  <config>
    <feature>disable</feature> <!-- operation="delete"-->
  </config>
```

```
</event-manager>
```

Command Syntax

```
event-manager (disable|enable)
```

Configure event pattern

Pattern to match

Attribute Name: event-pattern

Attribute Type: string

Attribute Name: event-type

Attribute Type: enum (syslog)

Attribute Name: event-id

Attribute Type: string

Attribute Range: 4-128

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|all)

Default Value: all

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
  <event-entries>
    <event-entry>
      <event-name>NAME</event-name>
      <config>
        <event-name>WORD</event-name>
        <event-type>syslog</event-type>
        <event-id>EVENT-ID</event-id>
        <severity>all</severity>
      </config>
      <event-pattern>PATTERN</event-pattern>
    </event-entry>
  </event-entries>
</event-manager>
```

Command Syntax

```
event-manager event NAME type (syslog) EVENT-ID ({ severity (0|1|2|3|4|5|all) |
  pattern PATTERN })
```

Configure action script

Name of script

Attribute Name: action-script

Attribute Type: string

Attribute Range: 4-64

Attribute Name: action-type

Attribute Type: enum (script)

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
  <action-entries>
    <action-entry>
      <action-name>NAME</action-name>
      <config>
        <action-name>WORD</action-name>
        <action-type>script</action-type>
      </config>
      <action-script>SCRIPT</action-script>
    </action-entry>
  </action-entries>
</event-manager>
```

Command Syntax

```
event-manager action NAME type (script) SCRIPT
```

Configure action name

Name of action

Attribute Name: action-name

Attribute Type: string

Attribute Range: 2-32

Attribute Name: event-name

Attribute Type: string

Attribute Range: 2-32

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
  <policies>
    <policy>
      <policy-name>NAME</policy-name>
      <config>
        <policy-name>NAME</policy-name>
        <event-name>NAME</event-name>
      </config>
      <action-name>NAME</action-name>
    </policy>
  </policies>
</event-manager>
```

Command Syntax

```
event-manager policy NAME event NAME action NAME
```

clear event-manager statistics all

Netconf RPC payload

```
<event-manager-clear-statistics-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-event-manager"/>
```

Command Syntax

```
clear event-manager statistics all
```

clear event-manager statistics policy NAME

Attribute Name: policy-name

Attribute Type: string

Netconf RPC payload

```
<event-manager-clear-statistics-on-policy xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-event-manager">
  <policy-name>NAME</policy-name>
</event-manager-clear-statistics-on-policy>
```

Command Syntax

```
clear event-manager statistics policy NAME
```

IPI-LOGGING-FAULT-MANAGEMENT

Configure severity

Use this attribute to set the severity level for the SYSLOG messages that will be sent over SNMP traps. The Default value to this attribute is 3(error).

This command is supported when following feature are enabled VLOGD feature

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 3

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <snmp-syslog>
    <config>
      <severity>3</severity> <!-- operation="delete"-->
    </config>
  </snmp-syslog>
</logging>
```

Command Syntax

```
logging snmp-traps (0|1|2|3|4|5|6|7)
```

Configure enable fault management

Enable Fault Management System

This command is supported when following feature are enabled FMS feature

Attribute Name: enable-fault-management

Attribute Type: uint8

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <fault-management>
    <config>
      </enable-fault-management><!-- operation="delete"-->
    </config>
  </fault-management>
</logging>
```

Command Syntax

```
fault-management enable
```

fault-management flush-db

Netconf RPC payload

```
<ipi-logging-fault-management_logging-fms-flush-db xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
fault-management flush-db
```

fault-management shelve ALARM-TYPE

Attribute Name: alarm-type

Attribute Type: string

Netconf RPC payload

```
<ipi-logging-fault-management_logging-fms-shelve xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging">
  <alarm-type>ALARM-TYPE</alarm-type>
</ipi-logging-fault-management_logging-fms-shelve>
```

Command Syntax

```
fault-management shelve ALARM-TYPE
```

fault-management close ACTIVE-ALARM-ID

Attribute Name: active-alarm-id

Attribute Type: string

Netconf RPC payload

```
<ipi-logging-fault-management_logging-fms-close xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging">
  <active-alarm-id>ACTIVE-ALARM-ID</active-alarm-id>
</ipi-logging-fault-management_logging-fms-close>
```

Command Syntax

```
fault-management close ACTIVE-ALARM-ID
```

IPI-DHCP

Configure disable dhcp feature

Disable the DHCP client and DHCP relay on the device.

Attribute Name: disable-dhcp-feature

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <global>
  <config>
    </disable-dhcp-feature><!-- operation="delete"-->
  </config>
</global>
</dhcp>
```

Command Syntax

```
no feature dhcp
```

Configure template name

This attribute specifies the option82 template name

Attribute Name: template-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <option82-templates>
  <option82-template> <!-- operation="delete"-->
    <template-name>NAME</template-name>
  <config>
    <template-name>WORD</template-name>
  </config>
</option82-template>
</option82-templates>
```

```
</dhcp>
```

Command Syntax

```
ip dhcp option82-template (NAME|default)
```

Configure policy action

Use this attribute to set policy action

Attribute Name: policy-action

Attribute Type: enum (drop|keep|replace)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <option82-templates>
    <option82-template>
      <template-name>NAME</template-name>
      <config>
        <template-name>WORD</template-name>
      </config>
      <policy-action>drop</policy-action> <!-- operation="delete"-->
    </option82-template>
  </option82-templates>
</dhcp>
```

Command Syntax

```
policy-action (drop|keep|replace)
```

Configure circuit id

Use this attribute to set circuit-id.

Attribute Name: circuit-id

Attribute Type: union

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <option82-templates>
    <option82-template>
      <template-name>NAME</template-name>
      <config>
        <template-name>WORD</template-name>
      </config>
      <circuit-id>hostname-interface-vlanname</circuit-id> <!-- operation="delete"-->
    </option82-template>
  </option82-templates>
</dhcp>
```

Command Syntax

```
circuit-id (hostname-interface-vlanname|hostname-relayinterface|interface-  
vlanname|WORD)
```

Configure remote id

Use this attribute to set remote-id

Attribute Name: remote-id

Attribute Type: union

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
<option82-templates>  
<option82-template>  
  <template-name>NAME</template-name>  
  <config>  
    <template-name>WORD</template-name>  
  </config>  
  <remote-id>hostname</remote-id> <!-- operation="delete"-->  
</option82-template>  
</option82-templates>  
</dhcp>
```

Command Syntax

```
remote-id (hostname|WORD)
```

IPI-RADIUS

Configure vrf name

VRF Name associated with this instance

This command is supported when following feature are enabled aaa feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">  
<vrfs>  
<vrf>  
  <vrf-name>management</vrf-name>
```

```

    <config>
      <vrf-name>management</vrf-name>
      <key-type>0</key-type> <!-- operation="delete"-->
      <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    </config>
  </vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login key (0|7) WORD (vrf (management|NAME) |)
```

Configure timeout

VRF Name associated with this instance

This command is supported when following feature are enabled aaa feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint8

Attribute Range: 3-60

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <timeout>3</timeout> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</radius>

```

Command Syntax

```
radius-server login timeout <3-60> (vrf (management|NAME) |)
```

Configure sequence number

Use this attribute to set the sequence-number/priority index for the RADIUS server

This command is supported when following feature are enabled aaa feature

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
      <sequence-number>1</sequence-number>
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8>
```

Configure secret key string

Shared key used between the authentication-server and the device

This command is supported when following feature are enabled aaa feature

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
```



```

    <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <key-type>0</key-type> <!-- operation="delete"-->
  </config>
  <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD
```

Configure accounting port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
      </config>
    </server>
  </remote-servers>
</radius>

```

```

    <key-type>0</key-type> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
  </config>
  <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD acct-port <0-65535>
```

Configure host address

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
    </server>
  </remote-servers>
</radius>

```

```

<config>
  <host-address>A.B.C.D</host-address>
  <sequence-number>1</sequence-number> <!-- operation="delete"-->
  <key-type>0</key-type> <!-- operation="delete"-->
  <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
  <accounting-port>0</accounting-port> <!-- operation="delete"-->
</config>
  <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD acct-port <0-65535> timeout <3-60>
```

Configure authentication port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS authentication messages

This command is supported when following feature are enabled aaa feature

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>

```

```

    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <key-type>0</key-type> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
  </config>
  <authentication-port>0</authentication-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD auth-port <0-65535>
```

Configure key type

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <server>
    <host-address>A.B.C.D</host-address>
  </server>
</radius>

```

```

    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <key-type>0</key-type> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    <authentication-port>0</authentication-port> <!-- operation="delete"-->
  </config>
  <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
  <vrf>

```

```

    <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
<remote-servers>
<server>
  <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <key-type>0</key-type> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    <authentication-port>0</authentication-port> <!-- operation="delete"-->
    <accounting-port>0</accounting-port> <!-- operation="delete"-->
  </config>
  <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <key-type>0</key-type> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
      </config>
      <timeout>3</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD auth-port <0-65535> timeout <3-60>

```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</remote-servers>
<server>
  <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <key-type>0</key-type> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
  </config>
  <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD timeout <3-60>
```

Configure server authentication-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS authentication messages

This command is supported when following feature are enabled aaa feature

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>

```



```

<remote-servers>
<server>
  <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
  </config>
  <authentication-port>0</authentication-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> auth-port <0-65535>

```

Configure server accounting-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</remote-servers>
<server>
  <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->

```

```

    <authentication-port>0</authentication-port> <!-- operation="delete"-->
  </config>
    <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> auth-port <0-65535> acct-port <0-65535>

```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
      </config>
      <timeout>3</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>

```

```

</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> auth-port <0-65535> timeout <3-60>

```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
      </config>
      <timeout>3</timeout> <!-- operation="delete"-->
    </server>
  </vrfs>
</radius>

```

```

</server>
</remote-servers>
</vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> auth-port <0-65535> acct-port <0-65535> timeout <3-60>

```

Configure server accounting-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```

<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
      </config>
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
      </server>
    </remote-servers>
  </vrf>
</vrfs>
</radius>

```

Command Syntax

```

radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> acct-port <0-65535>

```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
      </config>
      <timeout>3</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> acct-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
      </config>
      <timeout>3</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME) |) seq-
num <1-8> timeout <3-60>
```

Configure enable

This attribute is to enable/disable RADIUS debug logging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</radius>
```

```
</config>
</debug>
</radius>
```

Command Syntax

```
debug radius
```

clear radius-server counters (vrf (management|NAME)|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<radius-clear-all-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-radius">
  <vrf-name>management</vrf-name>
</radius-clear-all-server-counters>
```

Command Syntax

```
clear radius-server counters (vrf (management|NAME)|)
```

clear radius-server host (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|NAME|all)|)

Attribute Name: hostname

Attribute Type: union

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<radius-clear-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
radius">
  <hostname>A.B.C.D</hostname>
  <vrf-name>management</vrf-name>
</radius-clear-server-counters>
```

Command Syntax

```
clear radius-server host (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf
(management|NAME|all)|)
```

debug radius

Netconf RPC payload

```
<radius-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
radius"/>
```

Command Syntax

```
debug radius
```

no debug radius

Netconf RPC payload

```
<radius-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius"/>
```

Command Syntax

```
no debug radius
```

IPI-USER-MANAGEMENT

Configure enable

Use this attribute to enable user management debugging information.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</user-management>
```

Command Syntax

```
debug user-mgmt
```

Configure password hashing algorithm

Use this attribute to set the hash algorithm for username configurations

Attribute Name: password-hashing-algorithm

Attribute Type: enum (md5|sha-256|sha-512)

Default Value: sha-512

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <hashing>
    <config>
      <password-hashing-algorithm>sha-512</password-hashing-algorithm> <!--
operation="delete"-->
    </config>
  </hashing>
</user-management>
```



```
</config>
</hashing>
</user-management>
```

Command Syntax

```
user password encryption default (md5|sha-256|sha-512)
```

Configure disable default user

Use this attribute to prevent default user from being enabled at start up

Attribute Name: disable-default-user

Attribute Type: empty

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <global>
    <config>
      </disable-default-user><!-- operation="delete"-->
    </config>
  </global>
</user-management>
```

Command Syntax

```
username disable-default
```

Configure username

Login name of the user

Attribute Name: username

Attribute Type: string

Attribute Range: 2-32

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user> <!-- operation="delete"-->
      <username>USERNAME</username>
    <config>
      <username>USERNAME</username>
    </config>
  </user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME
```

Configure role

Use this attribute to set the user role. Operations that an user is allowed to perform are determined based on the role

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
      </config>
      <role>network-admin</role> <!-- operation="delete"-->
    </user>
  </users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-
user)
```

Configure password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
        <role>network-admin</role> <!-- operation="delete"-->
      </config>
      <password>PASSWORD</password> <!-- operation="delete"-->
    </user>
  </users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-user) password PASSWORD
```

Configure password hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
        <role>network-admin</role> <!-- operation="delete"-->
      </config>
      <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
    </user>
  </users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-user) password encrypted PASSWORD
```

Configure rbac role

Use this attribute to set the user role. Operations that an user is allowed to perform are determined based on the role

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
      </config>
    </user>
  </users>
</user-management>
```

```

    <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
  </user>
</users>
</user-management>

```

Command Syntax

```
username USERNAME role ROLE-NAME
```

Configure user password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```

<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
        <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
      </config>
      <password>PASSWORD</password> <!-- operation="delete"-->
    </user>
  </users>
</user-management>

```

Command Syntax

```
username USERNAME role ROLE-NAME password PASSWORD
```

Configure user password-hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```

<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
  <username>USERNAME</username>
  <config>
    <username>USERNAME</username>
    <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
  </config>
  <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
</user>
</users>
</user-management>

```

Command Syntax

```
username USERNAME role ROLE-NAME password encrypted PASSWORD
```

Configure user password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Netconf edit-config payload

```

<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
  <username>USERNAME</username>
  <config>
    <username>USERNAME</username>
  </config>
  <password>PASSWORD</password> <!-- operation="delete"-->
</user>
</users>
</user-management>

```

Command Syntax

```
username USERNAME password PASSWORD
```

Configure user password-hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
      </config>
      <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
    </user>
  </users>
</user-management>
```

Command Syntax

```
username USERNAME password encrypted PASSWORD
```

Configure root password

Use this attribute to change root user password.

Attribute Name: root-password

Attribute Type: string

Attribute Range: 8-32

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <rootpassword>
    <config>
      <root-password>PASSWORD</root-password> <!-- operation="delete"-->
    </config>
  </rootpassword>
</user-management>
```

Command Syntax

```
root password PASSWORD
```

Configure root password hashed

Use this attribute to specify root user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: root-password-hashed

Attribute Type: string

Attribute Range: 26-106

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <rootpassword>
    <config>
      <root-password-hashed>PASSWORD</root-password-hashed> <!-- operation="delete"-->
    </config>
  </rootpassword>
</user-management>
```

Command Syntax

```
root password encrypted PASSWORD
```

debug user-mgmt

Netconf RPC payload

```
<user-management-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-user-management"/>
```

Command Syntax

```
debug user-mgmt
```

no debug user-mgmt

Netconf RPC payload

```
<user-management-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-user-management"/>
```

Command Syntax

```
no debug user-mgmt
```

IPI-SSH

Configure enable

Use this attribute to enable ssh debugging configurations

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
```

```
</ssh-server>
```

Command Syntax

```
debug ssh server
```

Configure vrf name

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        </enable><!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>
```

Command Syntax

```
feature ssh (vrf (NAME|management) |)
```

Configure port

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        <port>1024</port> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>
```



```

    </config>
  </vrf>
</vrfs>
</ssh-server>

```

Command Syntax

```
ssh server port <1024-65535> (vrf (NAME|management) |)
```

Configure max login attempts

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: max-login-attempts

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-3

Netconf edit-config payload

```

<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        <max-login-attempts>1</max-login-attempts> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>

```

Command Syntax

```
ssh login-attempts <1-3> (vrf (NAME|management) |)
```

Configure session limit

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
```

```

<vrfs>
<vrf>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    <session-limit>1</session-limit> <!-- operation="delete"-->
  </config>
</vrf>
</vrfs>
</ssh-server>

```

Command Syntax

```
ssh server session-limit <1-40> (vrf (NAME|management)|)
```

Configure default algorithm

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: default-algorithm

Attribute Type: empty

Netconf edit-config payload

```

<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    </default-algorithm><!-- operation="delete"-->
  </config>
</vrf>
</vrfs>
</ssh-server>

```

Command Syntax

```
ssh server default algorithm (vrf (NAME|management)|)
```

Configure chacha20 poly1305

Use this attribute to set the ChaCha20-Poly1305 Cipher

This command is supported when following feature are enabled ssh server feature

Attribute Name: chacha20-poly1305

Attribute Type: empty

Attribute Name: aes128-ctr

Attribute Type: empty

Attribute Name: aes192-ctr

Attribute Type: empty

Attribute Name: aes256-ctr

Attribute Type: empty

Attribute Name: aes128-cbc

Attribute Type: empty

Attribute Name: aes192-cbc

Attribute Type: empty

Attribute Name: aes256-cbc

Attribute Type: empty

Attribute Name: triple-des-cbc

Attribute Type: empty

Attribute Name: aes128-gcm

Attribute Type: empty

Attribute Name: aes256-gcm

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <encryption-algorithms>
    <config>
      </aes128-ctr><!-- operation="delete"-->
      </aes192-ctr><!-- operation="delete"-->
      </aes256-ctr><!-- operation="delete"-->
      </aes128-cbc><!-- operation="delete"-->
      </aes192-cbc><!-- operation="delete"-->
      </aes256-cbc><!-- operation="delete"-->
      </triple-des-cbc><!-- operation="delete"-->
      </aes128-gcm><!-- operation="delete"-->
      </aes256-gcm><!-- operation="delete"-->
      </chacha20-poly1305><!-- operation="delete"-->
    </config>
  </encryption-algorithms>
</ssh-server>
```

Command Syntax

```
ssh server algorithm encryption { aes128-ctr| aes192-ctr| aes256-ctr| aes128-cbc|
  aes192-cbc| aes256-cbc| 3des-cbc| aes128-gcm| aes256-gcm| chacha20-poly1305 }
  (vrf (NAME|management) |)
```

Configure sntrup761x25519 sha512 openssh

Use this attribute to set the sntrup761x25519 SHA512 @openssh algorithm

This command is supported when following feature are enabled ssh server feature

Attribute Name: sntrup761x25519-sha512-openssh

Attribute Type: empty

Attribute Name: diffie-hellman-group1-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group14-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group14-sha256

Attribute Type: empty

Attribute Name: diffie-hellman-group16-sha512

Attribute Type: empty

Attribute Name: diffie-hellman-group18-sha512

Attribute Type: empty

Attribute Name: diffie-hellman-group-exchange-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group-exchange-sha256

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp256

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp384

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp521

Attribute Type: empty

Attribute Name: curve25519-sha256

Attribute Type: empty

Attribute Name: curve25519-sha256-libssh-org

Attribute Type: empty

Attribute Name: sntrup761x25519-sha512

Attribute Type: empty

Netconf edit-config payload

```

<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <kex-algorithms>
    <config>
      </diffie-hellman-group1-sha1><!-- operation="delete"-->
      </diffie-hellman-group14-sha1><!-- operation="delete"-->
      </diffie-hellman-group14-sha256><!-- operation="delete"-->
      </diffie-hellman-group16-sha512><!-- operation="delete"-->
      </diffie-hellman-group18-sha512><!-- operation="delete"-->
      </diffie-hellman-group-exchange-sha1><!-- operation="delete"-->
      </diffie-hellman-group-exchange-sha256><!-- operation="delete"-->
      </ecdh-sha2-nistp256><!-- operation="delete"-->
      </ecdh-sha2-nistp384><!-- operation="delete"-->
      </ecdh-sha2-nistp521><!-- operation="delete"-->
      </curve25519-sha256><!-- operation="delete"-->
      </curve25519-sha256-libssh-org><!-- operation="delete"-->
      </sntrup761x25519-sha512><!-- operation="delete"-->
      </sntrup761x25519-sha512-openssh><!-- operation="delete"-->
    </config>
  </kex-algorithms>
</ssh-server>

```

Command Syntax

```

ssh server algorithm kex { diffie-hellman-group1-sha1| diffie-hellman-group14-sha1|
  diffie-hellman-group14-sha256| diffie-hellman-group16-sha512| diffie-hellman-
  group18-sha512| diffie-hellman-group-exchange-sha1| diffie-hellman-group-
  exchange-sha256| ecdh-sha2-nistp256| ecdh-sha2-nistp384| ecdh-sha2-nistp521|
  curve25519-sha256| curve25519-sha256-libssh-org| sntrup761x25519-sha512|
  sntrup761x25519-sha512-openssh } (vrf (NAME|management))

```

Configure umac 128 etm

Use this attribute to set the UMAC-128-ETM @openssh.com MAC

This command is supported when following feature are enabled ssh server feature

Attribute Name: umac-128-etm

Attribute Type: empty

Attribute Name: hmac-sha1

Attribute Type: empty

Attribute Name: hmac-sha1-96

Attribute Type: empty

Attribute Name: hmac-sha2-256

Attribute Type: empty

Attribute Name: hmac-sha2-512

Attribute Type: empty

Attribute Name: hmac-md5

Attribute Type: empty

Attribute Name: hmac-md5-96

Attribute Type: empty

Attribute Name: umac-64

Attribute Type: empty

Attribute Name: umac-128

Attribute Type: empty

Attribute Name: hmac-sha1-etm

Attribute Type: empty

Attribute Name: hmac-sha1-96-etm

Attribute Type: empty

Attribute Name: hmac-sha2-256-etm

Attribute Type: empty

Attribute Name: hmac-sha2-512-etm

Attribute Type: empty

Attribute Name: hmac-md5-etm

Attribute Type: empty

Attribute Name: hmac-md5-96-etm

Attribute Type: empty

Attribute Name: umac-64-etm

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <mac-algorithms>
    <config>
      </hmac-sha1><!-- operation="delete"-->
      </hmac-sha1-96><!-- operation="delete"-->
    </config>
  </mac-algorithms>
</ssh-server>
```

```

    </hmac-sha2-256><!-- operation="delete"-->
    </hmac-sha2-512><!-- operation="delete"-->
    </hmac-md5><!-- operation="delete"-->
    </hmac-md5-96><!-- operation="delete"-->
    </umac-64><!-- operation="delete"-->
    </umac-128><!-- operation="delete"-->
    </hmac-sha1-etm><!-- operation="delete"-->
    </hmac-sha1-96-etm><!-- operation="delete"-->
    </hmac-sha2-256-etm><!-- operation="delete"-->
    </hmac-sha2-512-etm><!-- operation="delete"-->
    </hmac-md5-etm><!-- operation="delete"-->
    </hmac-md5-96-etm><!-- operation="delete"-->
    </umac-64-etm><!-- operation="delete"-->
    </umac-128-etm><!-- operation="delete"-->
</config>
</mac-algorithms>
</vrf>
</vrfs>
</ssh-server>

```

Command Syntax

```

ssh server algorithm mac { hmac-sha1| hmac-sha1-96| hmac-sha2-256| hmac-sha2-512|
hmac-md5| hmac-md5-96| umac-64| umac-128| hmac-sha1-etm| hmac-sha1-96-etm| hmac-
sha2-256-etm| hmac-sha2-512-etm| hmac-md5-etm| hmac-md5-96-etm| umac-64-etm|
umac-128-etm } (vrf (NAME|management)|)

```

Configure ssh rsa

Use this attribute to set the ssh-rsa host key algorithm

This command is supported when following feature are enabled ssh server feature

Attribute Name: ssh-rsa

Attribute Type: empty

Attribute Name: ssh-ed25519

Attribute Type: empty

Netconf edit-config payload

```

<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
</host-key-algorithms>
<config>
    </ssh-ed25519><!-- operation="delete"-->
    </ssh-rsa><!-- operation="delete"-->
</config>

```

```

</host-key-algorithms>
</vrf>
</vrfs>
</ssh-server>

```

Command Syntax

```
ssh server algorithm hostkey { ssh-ed25519| ssh-rsa } (vrf (NAME|management)|)
```

Configure disable default instance

Use this attribute to prevent default ssh config from being enabled at start up

This command is supported when following feature are enabled ssh server feature

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```

<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <default-instance>
    <config>
      </disable-default-instance><!-- operation="delete"-->
    </config>
  </default-instance>
</ssh-server>

```

Command Syntax

```
ssh server disable-default
```

Configure public key

Use this attribute to set the ssh public-key

Attribute Name: public-key

Attribute Type: string

Netconf edit-config payload

```

<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
  <users>
    <user>
      <username>USERNAME</username>
      <config>
        <username>USERNAME</username>
      </config>
      <ssh-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
        <config>
          <public-key>LINE</public-key> <!-- operation="delete"-->
        </config>
      </ssh-keys>
    </user>
  </users>
</user-management>

```



```
</users>
</user-management>
```

Command Syntax

```
username USERNAME sshkey LINE
```

debug ssh server

Netconf RPC payload

```
<ssh-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
debug ssh server
```

no debug ssh server

Netconf RPC payload

```
<ssh-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
no debug ssh server
```

clear ssh hosts

Netconf RPC payload

```
<ssh-clear-hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
clear ssh hosts
```

ssh keygen host dsa (vrf (NAME|management)) (force|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-server-dsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrf-name>NAME</vrf-name>
  <force>true</force>
</ssh-generate-server-dsa-key>
```

Command Syntax

```
ssh keygen host dsa (vrf (NAME|management)) (force|)
```

ssh keygen host rsa (length <1024-4096>|) (vrf (NAME|management)) (force|)

Attribute Name: length

Attribute Type: uint32

Default Value: 2048

Attribute Range: 1024-4096

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-server-rsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <length>2048</length>
  <vrf-name>NAME</vrf-name>
  <force>true</force/>
</ssh-generate-server-rsa-key>
```

Command Syntax

```
ssh keygen host rsa (length <1024-4096>|) (vrf (NAME|management)) (force|)
```

ssh keygen host ecdsa (length (256|384|521)|) (vrf (NAME|management)) (force|)

Attribute Name: length

Attribute Type: enum (256|384|521)

Default Value: 521

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-server-ecdsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
```

```

<length>521</length>
<vrf-name>NAME</vrf-name>
<force>true</force/>
</ssh-generate-server-ecdsa-key>

```

Command Syntax

```
ssh keygen host ecdsa (length (256|384|521)) (vrf (NAME|management)) (force|)
```

ssh keygen host ed25519 (vrf (NAME|management)) (force|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```

<ssh-generate-server-ed25519-key xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ssh">
  <vrf-name>NAME</vrf-name>
  <force>true</force/>
</ssh-generate-server-ed25519-key>

```

Command Syntax

```
ssh keygen host ed25519 (vrf (NAME|management)) (force|)
```

clear ssh host-key ((dsa|rsa|ecdsa|ed25519)) (vrf (NAME|management))

Attribute Name: type

Attribute Type: enum (all-keys|dsa|rsa|ecdsa|ed25519)

Default Value: all-keys

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```

<ssh-clear-server-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <type>all-keys</type>
  <vrf-name>NAME</vrf-name>
</ssh-clear-server-keys>

```

Command Syntax

```
clear ssh host-key ((dsa|rsa|ecdsa|ed25519)) (vrf (NAME|management))
```

username USERNAME keypair rsa (length <1024-4096>|) (force|)

Attribute Name: user-name

Attribute Type: string

Attribute Name: length

Attribute Type: uint32

Default Value: 4096

Attribute Range: 1024-4096

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-user-rsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <user-name>USERNAME</user-name>
  <length>4096</length>
  <force>true</force/>
</ssh-generate-user-rsa-key>
```

Command Syntax

```
username USERNAME keypair rsa (length <1024-4096>|) (force|)
```

username USERNAME keypair dsa (force|)

Attribute Name: user-name

Attribute Type: string

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-user-dsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <user-name>USERNAME</user-name>
  <force>true</force/>
</ssh-generate-user-dsa-key>
```

Command Syntax

```
username USERNAME keypair dsa (force|)
```

clear ssh keypair user USERNAME

Attribute Name: user-name

Attribute Type: string

Netconf RPC payload

```
<ssh-clear-user-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <user-name>USERNAME</user-name>
</ssh-clear-user-keys>
```

Command Syntax

```
clear ssh keypair user USERNAME
```

IPI-TELNET

Configure enable

Use this attribute to enable telnet debugging configurations

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
  <debug>
  <config>
    </enable><!-- operation="delete"-->
  </config>
</debug>
</telnet-server>
```

Command Syntax

```
debug telnet server
```

Configure vrf name

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
  <vrfs>
  <vrf>
    <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    </enable><!-- operation="delete"-->
  </config>
```

```
</vrf>
</vrfs>
</telnet-server>
```

Command Syntax

```
feature telnet (vrf (NAME|management) |)
```

Configure port

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        <port>1024</port> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</telnet-server>
```

Command Syntax

```
telnet server port <1024-65535> (vrf (NAME|management) |)
```

Configure session limit

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
```

```
<config>
  <vrf-name>NAME</vrf-name>
  <session-limit>1</session-limit> <!-- operation="delete"-->
</config>
</vrf>
</vrfs>
</telnet-server>
```

Command Syntax

```
telnet server session-limit <1-40> (vrf (NAME|management)|)
```

debug telnet server

Netconf RPC payload

```
<telnet-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
telnet"/>
```

Command Syntax

```
debug telnet server
```

no debug telnet server

Netconf RPC payload

```
<telnet-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
telnet"/>
```

Command Syntax

```
no debug telnet server
```

IPI-NTP

Configure disable ntp

Use this attribute to enable or disable NTP server

Attribute Name: disable-ntp

Attribute Type: uint8

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </disable-ntp><!-- operation="delete"-->
```

```

</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
no ntp enable (vrf (management|NAME) |)
```

Configure vrf name

Use this attribute to specify the vrf for which ntp feature is enabled

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: feature-enable

Attribute Type: empty

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        </feature-enable><!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ntp>

```

Command Syntax

```
feature ntp (vrf (management|NAME) |)
```

Configure enable logging

Use this attribute to specify the vrf for which ntp feature is enabled

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable-logging

Attribute Type: empty

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>

```



```

        </enable-logging><!-- operation="delete"-->
    </config>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp logging (vrf (management|NAME) |)
```

Configure enable local master

Use this attribute to configure the device as an NTP server.

Attribute Name: enable-local-master

Attribute Type: empty

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <ref-clock-master>
      <config>
        </enable-local-master>
      </config>
    </ref-clock-master>
  </vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp master (vrf (management|NAME) |)
```

Configure local stratum

Use this attribute to configure stratum level for a NTP server.

Attribute Name: local-stratum

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>

```

```

    <config>
      <vrf-name>management</vrf-name>
    </config>
  <ref-clock-master>
    <config>
      <local-stratum>1</local-stratum> <!-- operation="delete"-->
    </config>
  </ref-clock-master>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp master stratum <1-15> (vrf (management|NAME) |)
```

Configure enable ntp auth

Use this attribute to enable NTP authentication.

Attribute Name: enable-ntp-auth

Attribute Type: empty

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <authentication>
      <config>
        </enable-ntp-auth><!-- operation="delete"-->
      </config>
    </authentication>
  </vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp authenticate (vrf (management|NAME) |)
```

Configure ntp trusted keys

Use this attribute to configure one or more trusted authentication keys. If a key is trusted, the device will synchronize with a system that specifies this key in its NTP packets

Attribute Name: ntp-trusted-keys

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <authentication>
    <config>
      <ntp-trusted-keys>1</ntp-trusted-keys> <!-- operation="delete"-->
    </config>
  </authentication>
</ntp>

```

Command Syntax

```
ntp trusted-key <1-65535> (vrf (management|NAME) |)
```

Configure ntp request key

Use this to attribute to configure request key which shall be used as password for ntpdc utility.

Attribute Name: ntp-request-key

Attribute Type: uint32

Attribute Range: 1-65534

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <authentication>
    <config>
      <ntp-request-key>1</ntp-request-key> <!-- operation="delete"-->
    </config>
  </authentication>
</ntp>

```

Command Syntax

```
ntp request-key <1-65534> (vrf (management|NAME) |)
```

Configure key id

Use this attribute to set an NTP authentication key.

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: key-value

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <authentication>
      <ntp-keys>
        <ntp-key> <!-- operation="delete"-->
          <key-id>1</key-id>
          <config>
            <key-id>1</key-id>
            <key-value>WORD</key-value>
            <key-type>1</key-type>
          </config>
        </ntp-key>
      </ntp-keys>
    </authentication>
  </vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp authentication-key <1-65535> md5 WORD 7 (vrf (management|NAME) |)
```

Configure key value

Use this attribute to set an NTP authentication key.

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: key-value

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <authentication>
    <ntp-keys>
      <ntp-key> <!-- operation="delete"-->
        <key-id>1</key-id>
        <config>
          <key-id>1</key-id>
          <key-value>WORD</key-value>
          <key-type>0</key-type>
        </config>
      </ntp-key>
    </ntp-keys>
  </authentication>
</ntp>
```

Command Syntax

```
ntp authentication-key <1-65535> md5 WORD (vrf (management|NAME) |)
```

Configure prefer

preferred NTP server/peer

Attribute Name: prefer

Attribute Type: empty

Attribute Name: auth-key

Attribute Type: uint32

Default Value: 65535

Attribute Range: 1-65535

Attribute Name: minpoll

Attribute Type: uint16

Default Value: 4

Attribute Range: 4-16

Attribute Name: maxpoll

Attribute Type: uint16

Default Value: 6

Attribute Range: 4-16

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <servers>
    <server>
      <server-address>A.B.C.D</server-address>
      <config>
        <server-address>A.B.C.D</server-address>
        <auth-key>1</auth-key> <!-- operation="delete"-->
        <minpoll>4</minpoll> <!-- operation="delete"-->
        <maxpoll>4</maxpoll> <!-- operation="delete"-->
      </config>
      </prefer><!-- operation="delete"-->
    </server>
  </servers>
</ntp>

```

Command Syntax

```

ntp server (A.B.C.D|X:X::X:X|HOSTNAME) { key <1-65535>| minpoll <4-16>| maxpoll <4-16>| prefer } (vrf (management|NAME)|)

```

Configure server address

Use this attribute to set the NTP server IP address or hostname

Attribute Name: server-address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <servers>

```

```

<server>
  <server-address>A.B.C.D</server-address>
  <config>
    <server-address>A.B.C.D</server-address>
  </config>
</server>
</servers>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp server (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME) |)
```

Configure peer address

preferred NTP server/peer

Attribute Name: prefer

Attribute Type: empty

Attribute Name: auth-key

Attribute Type: uint32

Default Value: 65535

Attribute Range: 1-65535

Attribute Name: minpoll

Attribute Type: uint16

Default Value: 4

Attribute Range: 4-16

Attribute Name: maxpoll

Attribute Type: uint16

Default Value: 6

Attribute Range: 4-16

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <peers>
    <peer>
      <peer-address>A.B.C.D</peer-address>
    </peer>
  </peers>
</ntp>

```

```

    <peer-address>A.B.C.D</peer-address>
    <auth-key>1</auth-key> <!-- operation="delete"-->
    <minpoll>4</minpoll> <!-- operation="delete"-->
    <maxpoll>4</maxpoll> <!-- operation="delete"-->
  </config>
  </prefer><!-- operation="delete"-->
</peer>
</peers>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```

ntp peer (A.B.C.D|X:X::X:X|HOSTNAME) { key <1-65535>| minpoll <4-16>| maxpoll <4-
16>| prefer } (vrf (management|NAME)|)

```

Configure peer peer-address

Use this attribute to set the NTP peer IP address or hostname

Attribute Name: peer-address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <peers>
    <peer>
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
    </peer>
  </peers>
</ntp>

```

Command Syntax

```

ntp peer (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|)

```

Configure minimum pkt spacing

Use this attribute to specify the minimum packet spacing to be permitted

Attribute Name: minimum-pkt-spacing

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <rate-limiting>
      <config>
        <minimum-pkt-spacing>1</minimum-pkt-spacing> <!-- operation="delete"-->
      </config>
    </rate-limiting>
  </vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp discard { minimum <1-65535> } (vrf (management|NAME) |)
```

Configure netmask

use this attribute to specify the allowed NTP client IP network mask

Attribute Name: netmask

Attribute Type: union

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <access-control-entries>
      <access-control-entry>
        <client-ip-address>CML_IP_ADDR_T</client-ip-address>
        <config>
          <client-ip-address>CML_IP_ADDR_T</client-ip-address>
        </config>
        <netmask>NTP_CLIENT_IP_NET_MASK_T</netmask>
      </access-control-entry>
    </access-control-entries>
  </vrf>
</vrfs>
</ntp>
```

```

</access-control-entry>
</access-control-entries>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp allow (A.B.C.D|X:X::X:X) mask (A.B.C.D|<1-128>) (vrf (management|NAME) |)
```

Configure access options

use this attribute to specify the allowed access options for NTP client

Attribute Name: access-options

Attribute Type: bits (kod|nopeer|noserve|noquery|nomodify|notrap|limited)

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <access-control-entries>
    <access-control-entry>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      <config>
        <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      </config>
      <access-options>kod</access-options> <!-- operation="delete"-->
    </access-control-entry>
  </access-control-entries>
</ntp>

```

Command Syntax

```
ntp allow {kod|nopeer|noserve|noquery|nomodify|notrap|limited} (vrf
(management|NAME) |)
```

Configure client ip address

use this attribute to specify the allowed access options for NTP client

Attribute Name: access-options

Attribute Type: bits (kod|nopeer|noserve|noquery|nomodify|notrap|limited)

Attribute Name: netmask

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <access-control-entries>
    <access-control-entry>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      <config>
        <client-ip-address>CML_IP_ADDR_T</client-ip-address>
        <netmask>NTP_CLIENT_IP_NET_MASK_T</netmask>
      </config>
      <access-options>kod</access-options> <!-- operation="delete"-->
    </access-control-entry>
    </access-control-entries>
  </vrf>
</vrfs>
</ntp>

```

Command Syntax

```

ntp allow mask {kod|nopeer|noserve|noquery|nomodify|notrap|limited} (vrf
(management|NAME) |)

```

Configure access-control-entry client-ip-address

use this attribute to specify the allowed NTP client IP address

Attribute Name: client-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <access-control-entries>
    <access-control-entry>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      <config>
        <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      </config>
    </access-control-entry>
    </access-control-entries>
  </vrf>

```

```
</vrfs>
</ntp>
```

Command Syntax

```
ntp allow (vrf (management|NAME)|)
```

Configure enable

Use this attribute to enable NTP debug logs

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</ntp>
```

Command Syntax

```
debug ntp
```

Configure disable default instance

Use this attribute to prevent default ntp config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <default-instance>
    <config>
      </disable-default-instance><!-- operation="delete"-->
    </config>
  </default-instance>
</ntp>
```

Command Syntax

```
ntp disable-default
```

ntp sync-retry (vrf (management|NAME)|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<ntp-retry-server-synchronization xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ntp">
  <vrf-name>management</vrf-name>
</ntp-retry-server-synchronization>
```

Command Syntax

```
ntp sync-retry (vrf (management|NAME) |)
```

debug ntp**Netconf RPC payload**

```
<ntp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp"/>
```

Command Syntax

```
debug ntp
```

no debug ntp**Netconf RPC payload**

```
<ntp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp"/>
```

Command Syntax

```
no debug ntp
```

IPI-AAA

Configure authentication method rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
```

```
</aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) group LINE
```

Configure vrf name

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) local
```

Configure vrf authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) none
```

Configure vrf authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) local none
```

Configure accounting method rule

Use this attribute to set AAA methods for accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa accounting default (vrf (management|NAME)|) group LINE
```

Configure vrf accounting-method-rule

Use this attribute to set AAA methods for accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa accounting default (vrf (management|NAME)|) local
```

Configure authorization method rule

Use this attribute to set AAA methods for authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authorization default (vrf (management|NAME)|) group LINE
```

Configure vrf authorization-method-rule

Use this attribute to set AAA methods for authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authorization default (vrf (management|NAME)|) local
```

Configure error enable

This is to enable error message on login failures

Attribute Name: error-enable

Attribute Type: uint8

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      </error-enable><!-- operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login error-enable (vrf (management|NAME)|)
```

Configure enable fallback

This is to enable fallback to local authentication if remote authentication is configured and all AAA servers are unreachable

Attribute Name: enable-fallback

Attribute Type: uint8

Attribute Name: non-existent

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        </non-existent><!-- operation="delete"-->
      </config>
      </enable-fallback><!-- operation="delete"-->
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default fallback error local (non-existent-user|) (vrf
(management|NAME) |)
```

Configure group type

This is to create server group type

Attribute Name: group-type

Attribute Type: enum (tacacs+|radius)

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        </config>
      </server-groups>
      <server-group> <!-- operation="delete"-->
        <group-name>WORD</group-name>
        <config>
          <group-name>WORD</group-name>
          <group-type>tacacs+</group-type>
        </config>
        <group-type>tacacs+</group-type>
      </server-group>
    </server-groups>
  </vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa group server (tacacs+|radius) WORD (vrf (management|NAME) |)
```

Configure host address

Use this attribute to add a host address to a server group

Attribute Name: host-address

Attribute Type: union

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <server-groups>
    <server-group>
      <group-name>WORD</group-name>
      <config>
        <group-name>WORD</group-name>
        <group-type>tacacs+</group-type>
      </config>
      <group-type>tacacs+</group-type>
      <server-addresses>
        <server-address> <!-- operation="delete"-->
          <host-address>CML_HOSTNAME_T</host-address>
          <config>
            <host-address>CML_HOSTNAME_T</host-address>
          </config>
        </server-address>
      </server-addresses>
    </server-group>
  </server-groups>
</aaa>
```

Command Syntax

```
server (A.B.C.D|X:X::X:X|WORD)
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console group LINE
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console local
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console none
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console local none
```

Configure aaa-authentication-console authorization-method-rule

Use this attribute to set AAA methods for console authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authorization console group LINE
```

Configure aaa-authentication-console authorization-method-rule

Use this attribute to set AAA methods for console authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authorization console local
```

Configure aaa-authentication-console accounting-method-rule

Use this attribute to set AAA methods for console accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa accounting console group LINE
```

Configure aaa-authentication-console accounting-method-rule

Use this attribute to set AAA methods for console accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa accounting console local
```

Configure user non existent

This is to enable fallback to local authentication if remote authentication is configured and all AAA servers are unreachable

Attribute Name: enable-fallback

Attribute Type: boolean

Attribute Name: user-non-existent

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-authentication-console>
    <config>
      </user-non-existent><!-- operation="delete"-->
      <enable-fallback>true</enable-fallback> <!-- operation="delete"-->
    </config>
  </aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console fallback error local (non-existent-user|)
```

Configure authentication max failure attempts

Use this attribute to set the number of unsuccessful authentication attempts before a user is locked out

Attribute Name: authentication-max-failure-attempts

Attribute Type: uint8

Attribute Range: 1-25

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <config>
      <authentication-max-failure-attempts>1</authentication-max-failure-attempts> <!--
- operation="delete"-->
    </config>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication attempts max-fail <1-25>
```

Configure local user unlock timeout

Use this attribute to set unlock timeout after local user/s locked out

Attribute Name: local-user-unlock-timeout

Attribute Type: uint16

Attribute Range: 1-3600

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <config>
      <local-user-unlock-timeout>1</local-user-unlock-timeout> <!--
operation="delete"-->
    </config>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication unlock-timeout <1-3600>
```

Configure enable

Enable feature of applying policy to update password

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        </enable><!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy
```

Configure numeric count

The minimum number of digits

Attribute Name: numeric-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
```



```
<config>
  <numeric-count>1</numeric-count> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy numeric-count <1-32>
```

Configure uppercase count

The minimum number of upper letters

Attribute Name: uppercase-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <uppercase-count>1</uppercase-count> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy uppercase-count <1-32>
```

Configure lowercase count

The minimum number of lower letters

Attribute Name: lowercase-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <lowercase-count>1</lowercase-count> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
```

```
</aaa>
```

Command Syntax

```
aaa local authentication password-policy lowercase-count <1-32>
```

Configure special count

The minimum number of special characters

Attribute Name: special-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <special-count>1</special-count> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy special-count <1-32>
```

Configure history

history

Attribute Name: history

Attribute Type: uint16

Attribute Range: 1-400

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <history>1</history> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy history <1-400>
```

Configure maxsequence

The maximum number of monotonic character sequences to be accepted.

Attribute Name: maxsequence

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <maxsequence>1</maxsequence> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy maxsequence <1-32>
```

Configure disable usercheck

Disable the check if password contains username

Attribute Name: disable-usercheck

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        </disable-usercheck><!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy disable-usercheck
```

Configure maxrepeat

The maximum number of same consecutive characters to be accepted

Attribute Name: maxrepeat

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <maxrepeat>1</maxrepeat> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy maxrepeat <1-32>
```

Configure min length

Minimum password length

Attribute Name: min-length

Attribute Type: uint8

Attribute Range: 8-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <config>
        <min-length>8</min-length> <!-- operation="delete"-->
      </config>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy min-length <8-32>
```

Configure role

use this attribute to set the role for password expiry

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Attribute Name: expire

Attribute Type: uint16

Attribute Range: 0-1000

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <role-expdays>
        <role-expday>
          <role>network-admin</role>
          <config>
            <role>network-admin</role>
            <expire>0</expire> <!-- operation="delete"-->
          </config>
        </role-expday>
      </role-expdays>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password expire <0-1000> role (network-admin|network-
engineer|network-operator|network-user)
```

Configure user

use this attribute to set the username for password expiry

Attribute Name: user

Attribute Type: string

Attribute Name: expire

Attribute Type: uint16

Attribute Range: 0-1000

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <aaa-user>
    <password-policy>
      <user-expdays>
        <user-expday>
          <user>WORD</user>
          <config>
            <user>WORD</user>
            <expire>0</expire> <!-- operation="delete"-->
          </config>
        </user-expday>
      </user-expdays>
    </password-policy>
  </aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password expire <0-1000> user WORD
```

Configure debug enable

Use this attribute to display AAA debugging information.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</aaa>
```

Command Syntax

```
debug aaa
```

debug aaa

Netconf RPC payload

```
<aaa-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa"/>
```

Command Syntax

```
debug aaa
```

no debug aaa

Netconf RPC payload

```
<aaa-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa"/>
```

Command Syntax

```
no debug aaa
```

clear aaa local user lockout username USERNAME

Attribute Name: username

Attribute Type: string

Attribute Range: 2-32

Netconf RPC payload

```
<aaa-clear-local-user-lockout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
```

```
<username>USERNAME</username>  
</aaa-clear-local-user-lockout>
```

Command Syntax

```
clear aaa local user lockout username USERNAME
```

IPI-DHCP-RELAY

Configure disable dhcpv4 relay

Use this attribute to disable the DHCP relay global config

Attribute Name: disable-dhcpv4-relay

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <relay>  
    <global>  
      <config>  
        </disable-dhcpv4-relay><!-- operation="delete"-->  
      </config>  
    </global>  
  </relay>  
</dhcp>
```

Command Syntax

```
no ip dhcp relay
```

Configure disable dhcpv6 relay

Use this attribute to disable the DHCP relay global config

Attribute Name: disable-dhcpv6-relay

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <relay>  
    <global>  
      <config>  
        </disable-dhcpv6-relay><!-- operation="delete"-->  
      </config>  
    </global>  
  </relay>  
</dhcp>
```

Command Syntax

```
no ipv6 dhcp relay
```

Configure gi addr

Configure the custom gi-addr address

Attribute Name: gi-addr

Attribute Type: inet:ipv4-address

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </ipv4-relay-interface><!-- operation="delete"-->
        </config>
        <gi-addr>A.B.C.D</gi-addr> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay gi-addr A.B.C.D
```

Configure src ip addr

Use custom gi-addr as the source address

Attribute Name: src-ip-addr

Attribute Type: empty

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Attribute Name: gi-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
```



```

    <name>WORD</name>
  <config>
    <name>WORD</name>
    </ipv4-relay-interface><!-- operation="delete"-->
    <gi-addr>A.B.C.D</gi-addr> <!-- operation="delete"-->
  </config>
  </src-ip-addr><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay gi-addr A.B.C.D src-ip-addr
```

Configure ipv6 gi addr

ipv6-gi-addr to be used in the DHCP relay

Attribute Name: ipv6-gi-addr

Attribute Type: inet:ipv6-address

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </ipv6-relay-interface><!-- operation="delete"-->
        </config>
        <ipv6-gi-addr>X:X::X:X</ipv6-gi-addr> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay gi-addr X:X::X:X
```

Configure ipv6 src addr

Use custom gi-addr as the source address

Attribute Name: ipv6-src-addr

Attribute Type: empty

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Attribute Name: ipv6-gi-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </ipv6-relay-interface><!-- operation="delete"-->
          <ipv6-gi-addr>X:X::X:X</ipv6-gi-addr> <!-- operation="delete"-->
        </config>
        </ipv6-src-addr><!-- operation="delete"-->
      </interface>
    </interfaces>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay gi-addr X:X::X:X src-ip-addr
```

Configure ipv4 relay interface

Enable relay on Client facing interface

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </ipv4-relay-interface><!-- operation="delete"-->
      </interface>
    </interfaces>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay
```

Configure ipv4 uplink interface

Specify the interface as an uplink interface(Server facing)

Attribute Name: ipv4-uplink-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </ipv4-uplink-interface><!-- operation="delete"-->
    </interface>
  </interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay uplink
```

Configure ipv4 group name

Correlate specified interface to a specified DHCP server group.

Attribute Name: ipv4-group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <ipv4-group-name>GROUP-NAME</ipv4-group-name> <!-- operation="delete"-->
    </interface>
  </interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay server-select GROUP-NAME
```

Configure ipv6 relay interface

Enable IPv6 relay on Client facing interface

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </ipv6-relay-interface><!-- operation="delete"-->
    </interface>
  </interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay
```

Configure ipv6 uplink interface

Specify the interface as an uplink interface(Server facing)

Attribute Name: ipv6-uplink-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </ipv6-uplink-interface><!-- operation="delete"-->
    </interface>
  </interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay uplink
```

Configure ipv6 group name

Correlate specified interface to a specified DHCPv6 server group.

Attribute Name: ipv6-group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
          <ipv6-group-name>GROUP-NAME</ipv6-group-name> <!-- operation="delete"-->
        </interface>
      </interfaces>
    </relay>
  </dhcp>
```

Command Syntax

```
ipv6 dhcp relay server-select GROUP-NAME
```

Configure link selection source ip

Enable link selection sub-option (5) in the option-82 in DHCP packet

Attribute Name: link-selection-source-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
        </vrf>
      </vrfs>
    </relay>
  </dhcp>
```

Command Syntax

```
ip dhcp relay information source-ip A.B.C.D
```

Configure enable option82

Enable the device to insert and remove option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-option82><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option
```

Configure enable dhcpv6 pd route injection

Enable the route installation from the prefixes learned through prefix delegation.

Attribute Name: enable-dhcpv6-pd-route-injection

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay pd-route-injection
```

Configure remote id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        <remote-id>WORD</remote-id> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

Configure vrf name

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

```

    </enable-option82><!-- operation="delete"-->
  </config>
  <remote-id>0</remote-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option remote-id hostname
```

Configure vrf remote-id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        <remote-id>WORD</remote-id> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

Configure vrf remote-id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        <remote-id>0</remote-id> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option remote-id hostname
```

Configure option82 template name

Apply the defined option82 template to a relay configs

Attribute Name: option82-template-name

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        <option82-template-name>WORD</option82-template-name> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option option82-template-name WORD
```

Configure vrf option82-template-name

Apply the defined option82 template to a relay configs

Attribute Name: option82-template-name

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        <option82-template-name>WORD</option82-template-name> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option option82-template-name WORD
```

Configure enable option82 always on

Keep option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82-always-on

Attribute Type: uint8

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        </enable-option82-always-on><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

```

</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option always-on
```

Configure vrf enable-option82-always-on

Keep option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82-always-on

Attribute Type: uint8

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </enable-option82><!-- operation="delete"-->
        </config>
        </enable-option82-always-on><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option always-on
```

Configure ipv4 subscriber id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: ipv4-subscriber-id

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>

```

```

<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    </enable-option82><!-- operation="delete"-->
  </config>
  <ipv4-subscriber-id>WORD</ipv4-subscriber-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option subscriber-id WORD
```

Configure vrf ipv4-subscriber-id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: ipv4-subscriber-id

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    </enable-option82><!-- operation="delete"-->
  </config>
  <ipv4-subscriber-id>WORD</ipv4-subscriber-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option subscriber-id WORD
```

Configure subscriber id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: subscriber-id

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay information option subscriber-id WORD
```

Configure vrf link-selection-source-ip

Enable link selection sub-option (5) in the option-82 in DHCP packet

Attribute Name: link-selection-source-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information source-ip A.B.C.D
```

Configure vrf enable-option82

Enable the device to insert and remove option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-option82><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option
```

Configure vrf enable-dhcpv6-pd-route-injection

Enable the route installation from the prefixes learned through prefix delegation.

Attribute Name: enable-dhcpv6-pd-route-injection

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay pd-route-injection
```

Configure enable dhcpv6 duplicate clients

Specify that the DHCPv6 relay agent uses the clients incoming interfaces to differentiate between the duplicate DUIDs (Interface Identifier Option)

Attribute Name: enable-dhcpv6-duplicate-clients

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        </enable-dhcpv6-duplicate-clients><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay duplicate-clients
```

Configure vrf subscriber-id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: subscriber-id

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
          </config>
          <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->
        </vrf>
      </vrfs>
    </relay>
  </dhcp>
```

Command Syntax

```
ipv6 dhcp relay information option subscriber-id WORD
```

Configure interface type

DHCP relay vpn interface type

Attribute Name: interface-type

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv4-vpn-links>
          <ipv4-vpn-link> <!-- operation="delete"-->
            <interface-type>l3vpn</interface-type>
            <config>
              <interface-type>l3vpn</interface-type>
              <interface-direction>uplink</interface-direction>
            </config>
          </ipv4-vpn-link>
        </ipv4-vpn-links>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface direction

DHCP relay vpn interface type

Attribute Name: interface-type

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
```



```

<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <ipv4-vpn-links>
    <ipv4-vpn-link>
      <interface-type>l3vpn</interface-type>
      <config>
        <interface-type>l3vpn</interface-type>
        <interface-direction>uplink</interface-direction>
      </config>
    </ipv4-vpn-link>
  </ipv4-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface type v6

DHCPv6 relay vpn interface type

This command is supported when following feature are enabled IPV6 feature

Attribute Name: interface-type-v6

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction-v6

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-vpn-links>
          <ipv6-vpn-link> <!-- operation="delete"-->
            <interface-type-v6>l3vpn</interface-type-v6>
            <config>
              <interface-type-v6>l3vpn</interface-type-v6>
              <interface-direction-v6>uplink</interface-direction-v6>
            </config>
          </ipv6-vpn-link>

```

```

</ipv6-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface direction v6

DHCPv6 relay vpn interface type

This command is supported when following feature are enabled IPV6 feature

Attribute Name: interface-type-v6

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction-v6

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-vpn-links>
          <ipv6-vpn-link>
            <interface-type-v6>l3vpn</interface-type-v6>
            <config>
              <interface-type-v6>l3vpn</interface-type-v6>
              <interface-direction-v6>uplink</interface-direction-v6>
            </config>
          </ipv6-vpn-link>
        </ipv6-vpn-links>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure ip address

IPv4 address of the DHCP server

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv4-dhcp-servers>
          <ipv4-dhcp-server> <!-- operation="delete"-->
            <ip-address>A.B.C.D</ip-address>
            <config>
              <ip-address>A.B.C.D</ip-address>
            </config>
          </ipv4-dhcp-server>
        </ipv4-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay address A.B.C.D
```

Configure ipv4-dhcp-servers ip-address

IPv4 address of the DHCP server

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv4-dhcp-servers>
          <ipv4-dhcp-server> <!-- operation="delete"-->
            <ip-address>A.B.C.D</ip-address>
            <config>
              <ip-address>A.B.C.D</ip-address>
            </config>
          </ipv4-dhcp-server>
        </ipv4-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

```

    </ipv4-dhcp-server>
  </ipv4-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay address A.B.C.D
```

Configure dhcpv4 server global vrf

This attributes defines the VRF in which the DHCPv4 relay server is present

Attribute Name: dhcpv4-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv4-dhcp-servers>
          <ipv4-dhcp-server>
            <ip-address>A.B.C.D</ip-address>
            <config>
              <ip-address>A.B.C.D</ip-address>
            </config>
            <dhcpv4-server-global-vrf>VRF-NAME</dhcpv4-server-global-vrf> <!--
operation="delete"-->
          </ipv4-dhcp-server>
        </ipv4-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure ipv4-dhcp-server dhcpv4-server-global-vrf

This attributes defines the VRF in which the DHCPv4 relay server is present

Attribute Name: dhcpv4-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv4-dhcp-servers>
          <ipv4-dhcp-server>
            <ip-address>A.B.C.D</ip-address>
            <config>
              <ip-address>A.B.C.D</ip-address>
            </config>
            <dhcpv4-server-global-vrf>VRF-NAME</dhcpv4-server-global-vrf> <!--
operation="delete"-->
          </ipv4-dhcp-server>
        </ipv4-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure ipv6 address

IPv6 address of the DHCP server

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-dhcp-servers>
          <ipv6-dhcp-server> <!-- operation="delete"-->
            <ipv6-address>X:X::X:X</ipv6-address>
            <config>
              <ipv6-address>X:X::X:X</ipv6-address>
            </config>
          </ipv6-dhcp-server>
        </ipv6-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

```

    </ipv6-dhcp-server>
  </ipv6-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X
```

Configure ipv6-dhcp-servers ipv6-address

IPv6 address of the DHCP server

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-dhcp-servers>
          <ipv6-dhcp-server> <!-- operation="delete"-->
            <ipv6-address>X:X::X:X</ipv6-address>
            <config>
              <ipv6-address>X:X::X:X</ipv6-address>
            </config>
          </ipv6-dhcp-server>
        </ipv6-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X
```

Configure dhcpv6 server global vrf

This attributes defines the VRF in which the DHCPv6 relay server is present

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-dhcp-servers>
          <ipv6-dhcp-server>
            <ipv6-address>X:X::X:X</ipv6-address>
            <config>
              <ipv6-address>X:X::X:X</ipv6-address>
            </config>
            <dhcpv6-server-global-vrf>VRF-NAME</dhcpv6-server-global-vrf> <!--
operation="delete"-->
          </ipv6-dhcp-server>
        </ipv6-dhcp-servers>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

Configure ipv6-dhcp-server dhcpv6-server-global-vrf

This attributes defines the VRF in which the DHCPv6 relay server is present

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <ipv6-dhcp-servers>
          <ipv6-dhcp-server>
            <ipv6-address>X:X::X:X</ipv6-address>
            <config>
```

```

        <ipv6-address>X:X::X:X</ipv6-address>
    </config>
    <dhcpv6-server-global-vrf>VRF-NAME</dhcpv6-server-global-vrf> <!--
operation="delete"-->
    </ipv6-dhcp-server>
</ipv6-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

Configure group name

IPv4 DHCP Relay group name

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <dhcp-groups>
          <dhcp-group> <!-- operation="delete"-->
            <group-name>GROUP-NAME</group-name>
            <config>
              <group-name>WORD</group-name>
            </config>
          </dhcp-group>
        </dhcp-groups>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay server-group GROUP-NAME
```

Configure dhcp-groups group-name

IPv4 DHCP Relay group name

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
      <dhcp-groups>
        <dhcp-group> <!-- operation="delete"-->
          <group-name>GROUP-NAME</group-name>
          <config>
            <group-name>WORD</group-name>
          </config>
        </dhcp-group>
      </dhcp-groups>
    </vrf>
  </vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay server-group GROUP-NAME
```

Configure server

IPv4 DHCP Relay Group server details

Attribute Name: server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
      <dhcp-groups>
        <dhcp-group>
          <group-name>GROUP-NAME</group-name>
          <config>
```

```

        <group-name>WORD</group-name>
    </config>
    <server>A.B.C.D</server> <!-- operation="delete"-->
</dhcp-group>
</dhcp-groups>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
server A.B.C.D
```

Configure group6 name

IPv6 DHCP Relay group name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: group6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <dhcpv6-groups>
          <dhcpv6-group> <!-- operation="delete"-->
            <group6-name>GROUP-NAME</group6-name>
            <config>
              <group6-name>WORD</group6-name>
            </config>
          </dhcpv6-group>
        </dhcpv6-groups>
      </vrf>
    </vrfs>
  </relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay server-group GROUP-NAME
```

Configure dhcpv6-groups group6-name

IPv6 DHCP Relay group name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: group6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>NAME</vrf-name>
        </config>
        <dhcpv6-groups>
          <dhcpv6-group> <!-- operation="delete"-->
            <group6-name>GROUP-NAME</group6-name>
            <config>
              <group6-name>WORD</group6-name>
            </config>
          </dhcpv6-group>
        </dhcpv6-groups>
      </vrf>
    </vrfs>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay server-group GROUP-NAME
```

Configure dhcpv6-group server

IPv6 DHCP Relay Group server details

This command is supported when following feature are enabled IPV6 feature

Attribute Name: server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
```

```

    <vrf-name>NAME</vrf-name>
  </config>
  <dhcpv6-groups>
  <dhcpv6-group>
    <group6-name>GROUP-NAME</group6-name>
    <config>
      <group6-name>WORD</group6-name>
    </config>
    <server>X:X::X:X</server> <!-- operation="delete"-->
  </dhcpv6-group>
</dhcpv6-groups>
</vrf>
</vrfs>
</relay>
</dhcp>

```

Command Syntax

```
server X:X::X:X
```

clear ip dhcp relay statistics

Netconf RPC payload

```
<ipi-dhcp-relay_clear-relay-stats xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-dhcp"/>
```

Command Syntax

```
clear ip dhcp relay statistics
```

clear ip dhcp relay option statistics

Netconf RPC payload

```
<ipi-dhcp-relay_clear-relay-option-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-dhcp"/>
```

Command Syntax

```
clear ip dhcp relay option statistics
```

clear ipv6 dhcp pd-route (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```

<ipi-dhcp-relay_clear-dhcpv6-pd-route xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-dhcp">
  <vrf-name>NAME</vrf-name>
</ipi-dhcp-relay_clear-dhcpv6-pd-route>

```

Command Syntax

```
clear ipv6 dhcp pd-route (vrf NAME|)
```

IPI-DNS-RELAY

Configure enable dns feature

Use this attribute to enable the DNS relay agent feature.

Attribute Name: enable-dns-feature

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dns-feature>true</enable-dns-feature> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
feature dns relay
```

Configure dns-relay enable-dns-feature

Use this attribute to enable the DNS relay agent feature.

Attribute Name: enable-dns-feature

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dns-feature>true</enable-dns-feature> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
no feature dns relay
```

Configure enable dnsv4 relay

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dnsv4-relay>true</enable-dnsv4-relay> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure dns-relay enable-dnsv4-relay

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dnsv4-relay>true</enable-dnsv4-relay> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
no ip dns relay
```

Configure enable dnsv6 relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dnsv6-relay>true</enable-dnsv6-relay> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay
```

Configure dns-relay enable-dnsv6-relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <enable-dnsv6-relay>true</enable-dnsv6-relay> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
no ipv6 dns relay
```

Configure disable dnssec validation

Use this attribute to disable dnssec validation

Attribute Name: disable-dnssec-validation

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    </disable-dnssec-validation><!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
dns relay disable dnssec-validation
```

Configure dns server v4 addr

Use this attribute to set the IPv4 address

Attribute Name: dns-server-v4-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <dns-server-v4-addr>A.B.C.D</dns-server-v4-addr> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
ip dns relay address A.B.C.D
```

Configure dns server v6 addr

Use this attribute to set the IPv6 address

Attribute Name: dns-server-v6-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <config>
    <dns-server-v6-addr>X:X::X:X</dns-server-v6-addr> <!-- operation="delete"-->
  </config>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay address X:X::X:X
```

Configure name

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-dnsv4-relay><!-- operation="delete"-->
    </interface>
  </interfaces>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure interface enable-dnsv6-relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
```



```

        <name>WORD</name>
    </config>
</enable-dnsv6-relay><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>

```

Command Syntax

```
ipv6 dns relay
```

Configure dns relay uplink

Use this attribute to set the uplink IPv4 DNS relay agent.

Attribute Name: dns-relay-uplink

Attribute Type: empty

Netconf edit-config payload

```

<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    </dns-relay-uplink><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>

```

Command Syntax

```
ip dns relay uplink
```

Configure dns relay v6 uplink

Use this attribute to set the uplink IPv6 DNS relay agent.

Attribute Name: dns-relay-v6-uplink

Attribute Type: empty

Netconf edit-config payload

```

<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    </dns-relay-v6-uplink><!-- operation="delete"-->
</interface>

```

```
</interfaces>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay uplink
```

Configure vrf name

Use this attribute to disable dnssec validation

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-dnssec-validation

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <vrfs>
    <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
      </config>
      </disable-dnssec-validation><!-- operation="delete"-->
    </vrf>
  </vrfs>
</dns-relay>
```

Command Syntax

```
dns relay disable dnssec-validation
```

Configure vrf dns-server-v4-addr

Use this attribute to set the IPv4 address

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: dns-server-v4-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <vrfs>
    <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
        <dns-server-v4-addr>A.B.C.D</dns-server-v4-addr> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
```

```
</dns-relay>
```

Command Syntax

```
ip dns relay address A.B.C.D
```

Configure vrf dns-server-v6-addr

Use this attribute to set the IPv4 address

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: dns-server-v6-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
  <vrfs>
    <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
      </config>
      <dns-server-v6-addr>X:X::X:X</dns-server-v6-addr> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay address X:X::X:X
```

IPI-DNS-CLIENT

Configure default domain name

Default domain name used to complete unqualified host names (names without a dotted-decimal domain name).

Attribute Name: default-domain-name

Attribute Type: inet:domain-name

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <default-domain-name>DOMAIN-NAME</default-domain-name> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</dns>
```

```

</vrf>
</vrfs>
</dns>

```

Command Syntax

```
ip domain-name (vrf (NAME|management)|) DOMAIN-NAME
```

Configure vrf name

VRF name associated with this instance.

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: lookup-enabled

Attribute Type: empty

Netconf edit-config payload

```

<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        </lookup-enabled><!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</dns>

```

Command Syntax

```
ip domain-lookup (vrf (NAME|management)|)
```

Configure address

Name server address used for name resolution.

Attribute Name: address

Attribute Type: inet:ip-address

Netconf edit-config payload

```

<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <servers>
    <server> <!-- operation="delete"-->

```

```

    <address>CML_IP_ADDR_T</address>
  </config>
  <address>CML_IP_ADDR_T</address>
</config>
</server>
</servers>
</vrf>
</vrfs>
</dns>

```

Command Syntax

```
ip name-server (vrf (NAME|management) |) (A.B.C.D|X:X::X:X)
```

Configure domain name

Use this attribute to define a list of default domain names used to complete unqualified host names. Each domain in the list is to be tried in turn. The ip domain-list command is similar to the ip domain-name command, except that with the ip domain-list command you can define a list of domains, each to be tried in turn. If there is no domain list, the default domain name specified with the ip domain-name command is used. If there is a domain list, the default domain name is not used.

Attribute Name: domain-name

Attribute Type: inet:domain-name

Netconf edit-config payload

```

<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </search-domains>
    <search-domain> <!-- operation="delete"-->
      <domain-name>DOMAIN-NAME</domain-name>
      <config>
        <domain-name>CML_DOMAIN_NAME_T</domain-name>
      </config>
    </search-domain>
  </search-domains>
</vrf>
</vrfs>
</dns>

```

Command Syntax

```
ip domain-list (vrf (NAME|management) |) DOMAIN-NAME
```

Configure ipv6 address

Configure a static hostname-to-address IPv6 mapping in DNS.

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <host-entries>
    <host-entry>
      <hostname>HOSTNAME</hostname>
      <config>
        <hostname>1</hostname>
        <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
        <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
      </config>
    </host-entry>
  </host-entries>
</dns>
```

Command Syntax

```
ip host (vrf (NAME|management) |) HOSTNAME A.B.C.D X:X::X:X
```

Configure ipv4 address

Configure a static hostname-to-address IPv4 mapping in DNS.

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <host-entries>
```

```

<host-entry>
  <hostname>HOSTNAME</hostname>
  <config>
    <hostname>1</hostname>
    <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
  </config>
  <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>

```

Command Syntax

```
ip host (vrf (NAME|management)) HOSTNAME X:X::X:X A.B.C.D
```

Configure hostname

Configure a static hostname-to-address IPv4 mapping in DNS.

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <host-entries>
    <host-entry>
      <hostname>HOSTNAME</hostname>
      <config>
        <hostname>1</hostname>
        <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
      </config>
    </host-entry>
  </host-entries>
</dns>

```

Command Syntax

```
ip host (vrf (NAME|management)) HOSTNAME A.B.C.D
```

Configure host-entry ipv6-address

Configure a static hostname-to-address IPv6 mapping in DNS.

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <host-entries>
    <host-entry>
      <hostname>HOSTNAME</hostname>
      <config>
        <hostname>1</hostname>
      </config>
      <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
    </host-entry>
  </host-entries>
</dns>
```

Command Syntax

```
ip host (vrf (NAME|management) |) HOSTNAME X:X::X:X
```

Configure enable

DNS client debug.

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</dns>
```

Command Syntax

```
debug dns client
```

Configure disable default instance

Use this attribute to prevent default DNS config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <default-instance>
    <config>
      </disable-default-instance><!-- operation="delete"-->
    </config>
  </default-instance>
</dns>
```

Command Syntax

```
ip domain-lookup disable-default
```

debug dns client

Netconf RPC payload

```
<dns-client-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
dns-client"/>
```

Command Syntax

```
debug dns client
```

no debug dns client

Netconf RPC payload

```
<dns-client-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
dns-client"/>
```

Command Syntax

```
no debug dns client
```

IPI-DHCP-CLIENT

Configure request ipv4 dns

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ipv4-dns

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-ipv4-dns><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>

```

Command Syntax

```
ip dhcp client request dns-nameserver
```

Configure request log server

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-log-server

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </request-log-server><!-- operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>

```

Command Syntax

```
ip dhcp client request log-server
```

Configure request host name

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-host-name

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>

```

```
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-host-name><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ip dhcp client request host-name
```

Configure request ntp server

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ntp-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </request-ntp-server><!-- operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ip dhcp client request ntp-server
```

Configure request ipv6 dns

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ipv6-dns

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-ipv6-dns><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>

```

Command Syntax

```
ipv6 dhcp client request dns-nameserver
```

Configure request ipv6 domain list

Use this attribute to specifies a search list of Domain Names to be used by the client to locate not-fully-qualified domain names.

Attribute Name: request-ipv6-domain-list

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </request-ipv6-domain-list><!-- operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>

```

Command Syntax

```
ipv6 dhcp client request domain-search
```

Configure request ipv6 ntp server

Use this attribute to specifies a list of local NTP servers available for the client to synchronize their clocks.

Attribute Name: request-ipv6-ntp-server

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>

```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-ipv6-ntp-server><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>

```

Command Syntax

```
ipv6 dhcp client request ntp-server
```

Configure request ipv6 rapid commit

Use this attribute to indicate the clients to enter into rapid-commit with the server.

Attribute Name: request-ipv6-rapid-commit

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-ipv6-rapid-commit><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>

```

Command Syntax

```
ipv6 dhcp client request rapid-commit
```

Configure request ipv6 vendor opts

Use this attribute to specify a 32-bit Enterprise-ID number.

Attribute Name: request-ipv6-vendor-opts

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>

```

```
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </request-ipv6-vendor-opts><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request vendor-specific-information
```

Configure ipv6 information request

Use this attribute to get only stateless configuration parameters (i.e., without address).

Attribute Name: ipv6-information-request

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </ipv6-information-request><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client information-request
```

Configure ipv6 dad wait time

Use this attribute to Specify maximum time (in seconds) that the client should wait for the duplicate address detection (DAD) to complete on an interface.

Attribute Name: ipv6-dad-wait-time

Attribute Type: uint16

Attribute Range: 1-600

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <ipv6-dad-wait-time>1</ipv6-dad-wait-time> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client dad-wait-time <1-600>
```

Configure ipv6 client duid type

Use this attribute to configure duid type(II or Ilt).

Attribute Name: ipv6-client-duid-type

Attribute Type: enum (II|Ilt)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <ipv6-client-duid-type>II</ipv6-client-duid-type> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client duid (II|Ilt)
```

Configure ipv6 max delegated prefix

Use this attribute to configure the maximum number of simultaneous prefixes delegated to a single client

Attribute Name: ipv6-max-delegated-prefix

Attribute Type: uint16

Attribute Range: 1-64

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <ipv6-max-delegated-prefix>1</ipv6-max-delegated-prefix> <!--
operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client max-delegated-prefixes <1-64>
```

Configure request ipv6 prefix

Use this attribute to add an option to a DHCP request.

Attribute Name: request-ipv6-prefix

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <request-ipv6-prefix>PREFIX-NAME</request-ipv6-prefix> <!--
operation="delete"-->
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp prefix-delegation PREFIX-NAME
```

Configure suffix ipv6 addr

This attribute points to IPv6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: suffix-ipv6-addr

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <prefix-ipv6-addresses>
          <prefix-ipv6-address> <!-- operation="delete"-->
            <suffix-ipv6-addr>X:X::X:X/M</suffix-ipv6-addr>
            <config>
              <suffix-ipv6-addr>X:X::X:X/M</suffix-ipv6-addr>
              <prefix-name>PREFIX-NAME</prefix-name>
            </config>
            <prefix-name>PREFIX-NAME</prefix-name>
          </prefix-ipv6-address>
        </prefix-ipv6-addresses>
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 address PREFIX-NAME X:X::X:X/M
```

IPI-DHCP-SERVER

Configure enable ipv4 server

Interface on which IPv4 DHCP Server has to be run

Attribute Name: enable-ipv4-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
```

```

    <name>WORD</name>
  </config>
  </enable-ipv4-server><!-- operation="delete"-->
</interface>
</interfaces>
</server>
</dhcp>

```

Command Syntax

```
ip dhcp server
```

Configure enable ipv6 server

Interface on which IPv6 DHCP Server has to be run

Attribute Name: enable-ipv6-server

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </enable-ipv6-server><!-- operation="delete"-->
      </interface>
    </interfaces>
  </server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server
```

Configure max lease time

Maximum length in seconds that will be assigned to a lease.If not defined, the default maximum lease time is 86400.

Attribute Name: max-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>

```

```

    <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
    <max-lease-time>SECONDS</max-lease-time> <!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ip dhcp server max-lease-time SECONDS
```

Configure default lease time

Length in seconds that will be assigned to a lease if the client requesting the lease does not ask for a specific expiration time. The default is 86400

Attribute Name: default-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <default-lease-time>SECONDS</default-lease-time> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </server>
</dhcp>

```

Command Syntax

```
ip dhcp server default-lease-time SECONDS
```

Configure rapid commit

Option enables the DHCP Client to obtain configuration parameters from the server through a rapid two message exchange (solicit and reply).

Attribute Name: rapid-commit

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
```

```

<server>
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  </rapid-commit><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server rapid-commit
```

Configure preference

Use this to configure preference option in dhcp server.

Attribute Name: preference

Attribute Type: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  </preference><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server preference
```

Configure vrf name

Option enables the DHCP Client to obtain configuration parameters from the server through a rapid two message exchange (solicit and reply).

Attribute Name: rapid-commit

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        </rapid-commit><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server rapid-commit
```

Configure vrf preference

Use this to configure preference option in dhcp server.

Attribute Name: preference

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        </preference><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server preference
```

Configure vrf max-lease-time

Maximum length in seconds that will be assigned to a lease.If not defined, the default maximum lease time is 86400.

Attribute Name: max-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <max-lease-time>SECONDS</max-lease-time> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
ip dhcp server max-lease-time SECONDS
```

Configure vrf default-lease-time

Length in seconds that will be assigned to a lease if the client requesting the lease does not ask for a specific expiration time. The default is 86400

Attribute Name: default-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <default-lease-time>SECONDS</default-lease-time> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
ip dhcp server default-lease-time SECONDS
```

Configure pool name

IPv4 DHCP Server address pool name

Attribute Name: pool-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      <dhcp-pools>
        <dhcp-pool> <!-- operation="delete"-->
          <pool-name>NAME</pool-name>
          <config>
            <pool-name>WORD</pool-name>
          </config>
        </dhcp-pool>
      </dhcp-pools>
    </vrf>
  </vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server pool NAME
```

Configure dhcp-pools pool-name

IPv4 DHCP Server address pool name

Attribute Name: pool-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

```

    </config>
  <dhcp-pools>
    <dhcp-pool> <!-- operation="delete"-->
      <pool-name>NAME</pool-name>
      <config>
        <pool-name>WORD</pool-name>
      </config>
    </dhcp-pool>
  </dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ip dhcp server pool NAME
```

Configure host name

IPv4 DHCP Server option to provide hostname details to a DHCP client

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      <dhcp-pools>
        <dhcp-pool>
          <pool-name>NAME</pool-name>
          <config>
            <pool-name>WORD</pool-name>
          </config>
          <host-name>NAME</host-name> <!-- operation="delete"-->
        </dhcp-pool>
      </dhcp-pools>
    </vrf>
  </vrfs>
</server>
</dhcp>

```

Command Syntax

```
host-name NAME
```

Configure routers

IPv4 DHCP Server option to provide routers details to a DHCP client

Attribute Name: routers

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp-pools>
          <dhcp-pool>
            <pool-name>NAME</pool-name>
            <config>
              <pool-name>WORD</pool-name>
            </config>
            <routers>A.B.C.D</routers> <!-- operation="delete"-->
          </dhcp-pool>
        </dhcp-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
routers A.B.C.D
```

Configure ntp server

IPv4 DHCP Server option to provide ntp-server details to a DHCP client

Attribute Name: ntp-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

```

    <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
        <pool-name>WORD</pool-name>
      </config>
      <ntp-server>A.B.C.D</ntp-server> <!-- operation="delete"-->
    </dhcp-pool>
  </dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ntp-server A.B.C.D
```

Configure boot file

IPv4 DHCP Server option to provide boot-file details to a DHCP client

Attribute Name: boot-file

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      <dhcp-pools>
        <dhcp-pool>
          <pool-name>NAME</pool-name>
          <config>
            <pool-name>WORD</pool-name>
          </config>
          <boot-file>BOOTFILE</boot-file> <!-- operation="delete"-->
        </dhcp-pool>
      </dhcp-pools>
    </vrf>
  </vrfs>
</server>
</dhcp>

```

Command Syntax

```
boot-file BOOTFILE
```

Configure tftp server

IPv4 DHCP Server option to provide tftp-server details to a DHCP client

Attribute Name: tftp-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp-pools>
          <dhcp-pool>
            <pool-name>NAME</pool-name>
            <config>
              <pool-name>WORD</pool-name>
            </config>
            <tftp-server>A.B.C.D</tftp-server> <!-- operation="delete"-->
          </dhcp-pool>
        </dhcp-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
tftp-server A.B.C.D
```

Configure log server

IPv4 DHCP Server option to provide log-server details to a DHCP client

Attribute Name: log-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

```

    <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
        <pool-name>WORD</pool-name>
      </config>
      <log-server>A.B.C.D</log-server> <!-- operation="delete"-->
    </dhcp-pool>
  </dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
log-server A.B.C.D
```

Configure dns server

IPv4 DHCP Server option to provide dns name-server details to a DHCP client

Attribute Name: dns-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      <dhcp-pools>
        <dhcp-pool>
          <pool-name>NAME</pool-name>
          <config>
            <pool-name>WORD</pool-name>
          </config>
          <dns-server>A.B.C.D</dns-server> <!-- operation="delete"-->
        </dhcp-pool>
      </dhcp-pools>
    </vrf>
  </vrfs>
</server>
</dhcp>

```

Command Syntax

```
dns-server A.B.C.D
```

Configure netmask

Mask part of the subnet that will be used to assign IPv4 addresses to hosts

Attribute Name: netmask

Attribute Type: inet:ipv4-address

Attribute Name: network

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp-pools>
          <dhcp-pool>
            <pool-name>NAME</pool-name>
            <config>
              <pool-name>WORD</pool-name>
              <network>A.B.C.D</network> <!-- operation="delete"-->
            </config>
              <netmask>A.B.C.D</netmask> <!-- operation="delete"-->
            </dhcp-pool>
          </dhcp-pools>
        </vrf>
      </vrfs>
    </server>
  </dhcp>
```

Command Syntax

```
network A.B.C.D netmask A.B.C.D
```

Configure high address in range

Specifies the high range of the IPv4 addresses that the DHCP server should assign to DHCP clients.

Attribute Name: high-address-in-range

Attribute Type: inet:ipv4-address

Attribute Name: low-address-in-range

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
```

```

<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <dhcp-pools>
  <dhcp-pool>
    <pool-name>NAME</pool-name>
    <config>
      <pool-name>WORD</pool-name>
      <low-address-in-range>A.B.C.D</low-address-in-range> <!--
operation="delete"-->
    </config>
      <high-address-in-range>A.B.C.D</high-address-in-range> <!--
operation="delete"-->
    </dhcp-pool>
  </dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

address range low-address A.B.C.D (high-address A.B.C.D|)

Configure pool6 name

IPv6 DHCP Server address pool name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: pool6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <dhcp6-pools>
  <dhcp6-pool> <!-- operation="delete"-->
    <pool6-name>NAME</pool6-name>
    <config>
      <pool6-name>WORD</pool6-name>
    </config>
  </dhcp6-pool>
  </dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

```

    </dhcp6-pool>
  </dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server pool NAME
```

Configure dhcp6-pools pool6-name

IPv6 DHCP Server address pool name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: pool6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool> <!-- operation="delete"-->
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
            </config>
          </dhcp6-pool>
        </dhcp6-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server pool NAME
```

Configure domain name

IPv6 DHCP Server option to provide domain-name details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: domain-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
            </config>
            <domain-name>NAME</domain-name> <!-- operation="delete"-->
          </dhcp6-pool>
        </dhcp6-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
domain-name NAME
```

Configure vendor options

IPv6 DHCP Server option to provide vendor details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vendor-options

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
```



```

    <pool6-name>NAME</pool6-name>
    <config>
        <pool6-name>WORD</pool6-name>
    </config>
    <vendor-options>VENDOR-OPTS</vendor-options> <!-- operation="delete"-->
</dhcp6-pool>
</dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
vendor-options VENDOR-OPTS
```

Configure dhcp6-pool ntp-server

IPv6 DHCP Server option to provide ntp-server details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ntp-server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
            </config>
            <ntp-server>X:X::X:X</ntp-server> <!-- operation="delete"-->
          </dhcp6-pool>
        </dhcp6-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>

```

Command Syntax

```
ntp-server X:X::X:X
```

Configure dhcp6-pool dns-server

IPv6 DHCP Server option to provide dns name-server details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dns-server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
            </config>
            <dns-server>X:X::X:X</dns-server> <!-- operation="delete"-->
          </dhcp6-pool>
        </dhcp6-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>
```

Command Syntax

```
dns-server X:X::X:X
```

Configure ipv6 netmask

Mask part of the subnet that will be used to assign IPv6 addresses to hosts

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-netmask

Attribute Type: uint8

Attribute Range: 1-128

Attribute Name: ipv6-network

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
```

```

<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <dhcp6-pools>
  <dhcp6-pool>
    <pool6-name>NAME</pool6-name>
    <config>
      <pool6-name>WORD</pool6-name>
      <ipv6-network>X:X::X:X</ipv6-network> <!-- operation="delete"-->
    </config>
      <ipv6-netmask>1</ipv6-netmask> <!-- operation="delete"-->
    </dhcp6-pool>
  </dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
network X:X::X:X netmask <1-128>
```

Configure low address in range

Specifies the high range of the IPv6 addresses that the DHCP server should assign to DHCP clients.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: high-address-in-range

Attribute Type: inet:ipv6-address

Attribute Name: low-address-in-range

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
  <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <dhcp6-pools>
  <dhcp6-pool>
    <pool6-name>NAME</pool6-name>
    <config>
      <pool6-name>WORD</pool6-name>
    </config>
  </dhcp6-pool>
  </dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

```

        <low-address-in-range>X:X::X:X</low-address-in-range> <!--
operation="delete"-->
        </config>
        <high-address-in-range>X:X::X:X</high-address-in-range> <!--
operation="delete"-->
        </dhcp6-pool>
    </dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
address range low-address X:X::X:X (high-address X:X::X:X|)
```

Configure temporary address

Specifies the temporary IPv6 address that the DHCP server should assign to DHCP clients.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: temporary-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
            </config>
            <temporary-address>X:X::X:X</temporary-address> <!-- operation="delete"--
>
          </dhcp6-pool>
        </dhcp6-pools>
      </vrf>
    </vrfs>
  </server>
</dhcp>

```

Command Syntax

```
temporary address X:X::X:X
```

Configure ipv6 prefix netmask

Mask part of the ipv6 Prefix used for Prefix delegation

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-prefix-netmask

Attribute Type: uint8

Attribute Range: 1-128

Attribute Name: ipv6-prefix-high-address

Attribute Type: inet:ipv6-address

Attribute Name: ipv6-prefix-low-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
              <ipv6-prefix-high-address>X:X::X:X</ipv6-prefix-high-address> <!--
operation="delete"-->
              <ipv6-prefix-low-address>X:X::X:X</ipv6-prefix-low-address> <!--
operation="delete"-->
              </config>
              <ipv6-prefix-netmask>1</ipv6-prefix-netmask> <!-- operation="delete"-->
            </dhcp6-pool>
          </dhcp6-pools>
        </vrf>
      </vrfs>
    </server>
  </dhcp>
```

Command Syntax

```
prefix high-range X:X::X:X low-range X:X::X:X netmask <1-128>
```

IPI-SFLOW

Configure enabled

Use this attribute to enable or disable Sampled Flow (sFlow) feature globally.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <config>
      </enabled>
    </config>
  </sflow>
</sampling>
```

Command Syntax

```
feature sflow
```

Configure source address

The IP address associated with this agent. In the case of a multi-homed agent, this should be the loopback address of the agent. The sFlowAgent address must provide SNMP connectivity to the agent. The address should be an invariant that does not change as interfaces are reconfigured, enabled, disabled, added or removed. A manager should be able to use the sFlowAgentAddress as a unique key that will identify this agent over extended periods of time so that a history can be maintained.

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <config>
      <source-address>A.B.C.D</source-address> <!-- operation="delete"-->
    </config>
  </sflow>
</sampling>
```

Command Syntax

```
sflow agent-ip A.B.C.D
```

Configure vrf name

The VRF name from which this collector is reachable.

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: receiver-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-2147483647

Attribute Name: max-datagram-size

Attribute Type: uint16

Default Value: 1560

Attribute Range: 200-9000

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <collectors>
      <collector>
        <collector-id>1</collector-id>
        <config>
          <collector-id>1</collector-id>
          <port>1024</port>
          <address>A.B.C.D</address>
          <receiver-timeout>0</receiver-timeout> <!-- operation="delete"-->
          <max-datagram-size>200</max-datagram-size> <!-- operation="delete"-->
        </config>
        <port>1024</port>
        <address>A.B.C.D</address>
        <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
      </collector>
    </collectors>
  </sflow>
</sampling>

```

Command Syntax

```

sflow (collector-id <1-5>|) collector A.B.C.D (port <1024-65535>|) (receiver-time-
out <0-2147483647>|) (max-datagram-size <200-9000>|) (vrf WORD|)

```

Configure max entries

Specifies the maximum number of log entries that are cached, default is 1000 entries

Attribute Name: max-entries

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-10000

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <logging>
      <config>
        <max-entries>1000</max-entries> <!-- operation="delete"-->
      </config>
    </logging>
  </sflow>
</sampling>
```

Command Syntax

```
access-list logging cache-size <1000-10000>
```

Configure options

Set sFlow debug in config mode

Attribute Name: options

Attribute Type: bits (agent|sampling|polling|all)

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <debug>
      <config>
        <options>agent</options> <!-- operation="delete"-->
      </config>
    </debug>
  </sflow>
</sampling>
```

Command Syntax

```
debug sflow (agent|sampling|polling|all)
```

Configure polling interval

Configure global polling-interval for packet sampling. The sflow polling-interval configuration on interface overrides the global configuration.

Attribute Name: polling-interval

Attribute Type: uint8

Attribute Range: 5-60

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <global>
      <config>
```



```

    <polling-interval>5</polling-interval> <!-- operation="delete"-->
</config>
</global>
</sflow>
</sampling>

```

Command Syntax

```
sflow poll-interval <5-60>
```

Configure update port pvid

Configure enable update-port-pvid for sflow enabled access ports to include vlan in the sampled packets.

Attribute Name: update-port-pvid

Attribute Type: empty

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <global>
      <config>
        </update-port-pvid><!-- operation="delete"-->
      </config>
    </global>
  </sflow>
</sampling>

```

Command Syntax

```
sflow sampling update-port-pvid
```

Configure sampling direction

sflow sampling direction

Attribute Name: sampling-direction

Attribute Type: enum (ingress|egress)

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow"> <!--
operation="delete"-->
  <sflow>
    <global>
      <samplings>
        <sampling> <!-- operation="delete"-->
          <sampling-direction>ingress</sampling-direction>
        </config>
          <sampling-direction>ingress</sampling-direction>
        </config>
      </sampling>
    </samplings>

```

```

</global>
</sflow>
</sampling>

```

Command Syntax

```
sflow direction (ingress|egress)
```

Configure rate

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows. An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rate of 1 counts all packets. A sampling rate of 0 disables sampling. The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations). When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value. When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: rate

Attribute Type: uint32

Default Value: 16777215

Attribute Range: 1024-16777215

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <global>
      <samplings>
        <sampling>
          <sampling-direction>ingress</sampling-direction>
          <config>
            <sampling-direction>ingress</sampling-direction>
          </config>
          <rate>1024</rate> <!-- operation="delete"-->
        </sampling>
      </samplings>
    </global>
  </sflow>
</sampling>

```

Command Syntax

```
sampling-rate <1024-16777215>
```

Configure max header size

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows. An agent should choose its own algorithm to introduce variance into the sampling so that exactly every

Nth packet is not counted. A sampling rate of 1 counts all packets. A sampling rate of 0 disables sampling. The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations). When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value. When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: max-header-size

Attribute Type: uint16

Default Value: 16

Attribute Range: 16-256

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <global>
      <samplings>
        <sampling>
          <sampling-direction>ingress</sampling-direction>
          <config>
            <sampling-direction>ingress</sampling-direction>
          </config>
          <max-header-size>16</max-header-size> <!-- operation="delete"-->
        </sampling>
      </samplings>
    </global>
  </sflow>
</sampling>
```

Command Syntax

```
max-header-size <16-256>
```

clear access-list log-cache

Netconf RPC payload

```
<sflow-clear-access-list-log-cache xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-sflow"/>
```

Command Syntax

```
clear access-list log-cache
```

debug sflow (agent|sampling|polling|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (agent|sampling|polling|all)

Netconf RPC payload

```
<sflow-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<terminal-debug-options>agent</terminal-debug-options>
</sflow-terminal-debug-on>
```

Command Syntax

```
debug sflow (agent|sampling|polling|all)
```

no debug sflow (agent|sampling|polling|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (agent|sampling|polling|all)

Netconf RPC payload

```
<sflow-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sflow">
<terminal-debug-options>agent</terminal-debug-options>
</sflow-terminal-debug-off>
```

Command Syntax

```
no debug sflow (agent|sampling|polling|all)
```

IPI-SFLOW-INTERFACE

Configure disable collector id

Disable a collector id to the interface so that no sflow data from this interface is sent to it.

Attribute Name: disable-collector-id

Attribute Type: uint8

Attribute Range: 1-5

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <disable-collector-id>1</disable-collector-id> <!-- operation="delete"-->
    </interface>
  </interfaces>
</sflow>
</sampling>
```

Command Syntax

```
no sflow collector-id <1-5>
```

Configure enabled

To enable or disable sampling on an interface after giving the sflow sampling-rate command on the same interface, or it can use the global configuration for sampling and polling-interval on this interface.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </enabled><!-- operation="delete"-->
      </interface>
    </interfaces>
  </sflow>
</sampling>
```

Command Syntax

```
sflow enable
```

Configure polling interval

The maximum number of seconds between successive samples of the counters associated with this data source. A sampling interval of 0 disables counter sampling. The agent is permitted to have minimum and maximum allowable values for the counter polling interval. A minimum interval lets the agent designer set an upper bound on the overhead associated with polling, and a maximum interval may be the result of implementation restrictions (such as counter size). In addition, not all values between the maximum and minimum may be realizable as the sampling interval (again because of implementation considerations). When the sampling rate is set, the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value. When read, the agent must return the actual sampling interval it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: polling-interval

Attribute Type: uint8

Attribute Range: 5-60

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
```

```

    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <polling-interval>5</polling-interval> <!-- operation="delete"-->
    </interface>
  </interfaces>
</sflow>
</sampling>

```

Command Syntax

```
sflow poll-interval <5-60>
```

Configure sampling direction

sflow sampling direction

Attribute Name: sampling-direction

Attribute Type: enum (ingress|egress)

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow"> <!--
operation="delete"-->
  <sflow>
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <samplings>
          <sampling> <!-- operation="delete"-->
            <sampling-direction>ingress</sampling-direction>
            <config>
              <sampling-direction>ingress</sampling-direction>
            </config>
          </sampling>
        </samplings>
      </interface>
    </interfaces>
  </sflow>
</sampling>

```

Command Syntax

```
sflow direction (ingress|egress)
```

Configure rate

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows. An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rate of 1 counts all packets. A sampling rate of 0 disables sampling. The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations). When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value. When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: rate

Attribute Type: uint32

Default Value: 16777215

Attribute Range: 1024-16777215

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <samplings>
          <sampling>
            <sampling-direction>ingress</sampling-direction>
            <config>
              <sampling-direction>ingress</sampling-direction>
            </config>
            <rate>1024</rate> <!-- operation="delete"-->
          </sampling>
        </samplings>
      </interface>
    </interfaces>
  </sflow>
</sampling>
```

Command Syntax

```
sampling-rate <1024-16777215>
```

Configure max header size

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows. An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rate of 1 counts all packets. A sampling rate of 0 disables sampling. The agent is

permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations). When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value. When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: max-header-size

Attribute Type: uint16

Default Value: 16

Attribute Range: 16-256

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <samplings>
        <sampling>
          <sampling-direction>ingress</sampling-direction>
          <config>
            <sampling-direction>ingress</sampling-direction>
          </config>
          <max-header-size>16</max-header-size> <!-- operation="delete"-->
        </sampling>
      </samplings>
    </interface>
  </interfaces>
</sflow>
</sampling>
```

Command Syntax

```
max-header-size <16-256>
```

Configure disabled

This leaf is used to disable sampling on given direction, but it keeps the sFlow feature running on interface.

Attribute Name: disabled

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
```



```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <samplings>
      <sampling>
        <sampling-direction>ingress</sampling-direction>
        <config>
          <sampling-direction>ingress</sampling-direction>
        </config>
        </disabled><!-- operation="delete"-->
      </sampling>
    </samplings>
  </interface>
</interfaces>
</sflow>
</sampling>

```

Command Syntax

```
disable
```

clear sflow statistics (interface IFNAME|)

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```

<sflow-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-
interface">
  <interface>IFNAME</interface>
</sflow-clear-statistics>

```

Command Syntax

```
clear sflow statistics (interface IFNAME|)
```

clear dynamic-load-balance monitor events

Netconf RPC payload

```

<clear-dynamic-load-balance-monitor-events xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-sflow-interface"/>

```

Command Syntax

```
clear dynamic-load-balance monitor events
```

IPI-SFLOW-IPFIX

Configure exporter name

The IP Flow Exporter name.

Attribute Name: exporter-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter> <!-- operation="delete"-->
      <exporter-name>WORD</exporter-name>
    <config>
      <exporter-name>WORD</exporter-name>
    </config>
  </ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
ip-flow-exporter WORD
```

Configure collector port

The IP port of the IP Flow Collector.

Attribute Name: collector-port

Attribute Type: inet:port-number

Attribute Range: 1024-65535

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
        <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
      </config>
      <collector-port>1024</collector-port> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

```
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D port <1024-65535>
```

Configure collector vrf

VRF Name associated with this instance

Attribute Name: collector-vrf

Attribute Type: string

Attribute Range: 1-33

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Attribute Name: collector-port

Attribute Type: inet:port-number

Attribute Range: 1024-65535

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
        <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
        <collector-port>1024</collector-port> <!-- operation="delete"-->
      </config>
      <collector-vrf>WORD</collector-vrf> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D port <1024-65535> vrf WORD
```

Configure collector ip

VRF Name associated with this instance

Attribute Name: collector-vrf

Attribute Type: string

Attribute Range: 1-33

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
        <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
      </config>
      <collector-vrf>WORD</collector-vrf> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D vrf WORD
```

Configure source if

Source interface

Attribute Name: source-if

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
      </config>
      <source-if>IFNAME</source-if> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

Command Syntax

```
source IFNAME
```

Configure ip-flow-exporter collector-ip

The IP address of the IP Flow Collector.

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
      </config>
      <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D
```

Configure template id

Template ID for flow

Attribute Name: template-id

Attribute Type: uint32

Attribute Range: 256-65535

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
      </config>
      <template-id>256</template-id> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>
```

Command Syntax

```
template-id <256-65535>
```

Configure template refresh interval

Interval to send periodic template updates to IP Flow Exporter.

Attribute Name: template-refresh-interval

Attribute Type: uint32

Attribute Range: 60-86400

Netconf edit-config payload

```

<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
      </config>
      <template-refresh-interval>60</template-refresh-interval> <!--
operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>

```

Command Syntax

```
template-refresh-interval <60-86400>
```

Configure samples per message

Samples per message

Attribute Name: samples-per-message

Attribute Type: enum (1|8)

Netconf edit-config payload

```

<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
  <ip-flow-exporters>
    <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
        <exporter-name>WORD</exporter-name>
      </config>
      <samples-per-message>1</samples-per-message> <!-- operation="delete"-->
    </ip-flow-exporter>
  </ip-flow-exporters>
</ipfix>

```

Command Syntax

```
samples-per-message (1|8)
```

Configure monitor name

The IP Flow Monitor name.

Attribute Name: monitor-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor> <!-- operation="delete"-->
  <monitor-name>WORD</monitor-name>
  <config>
    <monitor-name>WORD</monitor-name>
  </config>
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
ip-flow-monitor WORD
```

Configure flow exporter

Exporter Name associated with this instance

Attribute Name: flow-exporter

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor>
  <monitor-name>WORD</monitor-name>
  <config>
    <monitor-name>WORD</monitor-name>
  </config>
  <flow-exporter>WORD</flow-exporter> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
flow-exporter WORD
```

Configure sampling rate

Sampling Rate. One packet sampled after every 'sampling-rate' packets

Attribute Name: sampling-rate

Attribute Type: uint32

Attribute Range: 1024-16777215

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
```

```

<ip-flow-monitors>
<ip-flow-monitor>
  <monitor-name>WORD</monitor-name>
  <config>
    <monitor-name>WORD</monitor-name>
  </config>
  <sampling-rate>1024</sampling-rate> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>

```

Command Syntax

```
sampling-rate <1024-16777215>
```

Configure observation domain id

Observation Domain ID.

Attribute Name: observation-domain-id

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor>
  <monitor-name>WORD</monitor-name>
  <config>
    <monitor-name>WORD</monitor-name>
  </config>
  <observation-domain-id>0</observation-domain-id> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>

```

Command Syntax

```
observation-domain-id <0-4294967295>
```

Configure flow monitor

Monitor Name associated with this instance

Attribute Name: flow-monitor

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<interfaces>

```



```

<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <flow-monitor>WORD</flow-monitor> <!-- operation="delete"-->
</interface>
</interfaces>
</ipfix>

```

Command Syntax

```
flow-monitor WORD
```

IPI-WATCHDOG

Configure watchdog disabled

Disable software watchdog functionality for all modules. This feature is enabled by default.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: watchdog-disabled

Attribute Type: uint8

Netconf edit-config payload

```

<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
  <config>
    </watchdog-disabled><!-- operation="delete"-->
  </config>
</watchdog>

```

Command Syntax

```
no feature software-watchdog
```

Configure keepalive interval

Software watchdog keep-alive time interval in seconds. Default value is 60 seconds.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 30-1800

Netconf edit-config payload

```

<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
  <config>

```

```

    <keepalive-interval>30</keepalive-interval> <!-- operation="delete"-->
</config>
</watchdog>

```

Command Syntax

```
software-watchdog keep-alive-time <30-1800>
```

Configure module watchdog status disabled

Enable software watchdog functionality for a particular software module.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: module-watchdog-status-disabled

Attribute Type: uint8

Netconf edit-config payload

```

<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<software-modules>
<software-module>
  <name>nsm</name>
  <config>
    <name>nsm</name>
  </config>
  </module-watchdog-status-disabled><!-- operation="delete"-->
</software-module>
</software-modules>
</watchdog>

```

Command Syntax

```

no software-watchdog
(nsm|ripd|ripngd|ospfd|ospf6d|isisd|hostpd|ldpd|rsvpd|mribd|pimd|authd|mstpd|imi
|onmd|hsl|oamd|vlogd|ptpd|syncd|vrrpd|ndd|ribd|bgpd|l2mribd|lagd|sflow|udld|cml
d|cmmd|pcepd)

```

clear cores (WORD|)

Attribute Name: core-dump

Attribute Type: string

Netconf RPC payload

```

<clear-core-dump xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<core-dump>WORD</core-dump>
</clear-core-dump>

```

Command Syntax

```
clear cores (WORD|)
```

sys-update un-install

Netconf RPC payload

```
<sys-update-uninstall xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update"/>
```

Command Syntax

```
sys-update un-install
```

sys-container (raon) (install|update) file FILENAME

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: upgrade-type

Attribute Type: enum (install|update)

Attribute Name: file

Attribute Type: string

Netconf RPC payload

```
<sys-container-install xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
  <type>raon</type>
  <upgrade-type>install</upgrade-type>
  <file>FILENAME</file>
</sys-container-install>
```

Command Syntax

```
sys-container (raon) (install|update) file FILENAME
```

sys-container (raon) un-install

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: un-install

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<sys-container-uninstall xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
  <type>raon</type>
  <un-install>true</un-install/>
</sys-container-uninstall>
```

Command Syntax

```
sys-container (raon) un-install
```

sys-container (raon) (start|stop|restart)

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: boot-type

Attribute Type: enum (start|stop|restart)

Netconf RPC payload

```
<sys-container-boot xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
  <type>raon</type>
  <boot-type>start</boot-type>
</sys-container-boot>
```

Command Syntax

```
sys-container (raon) (start|stop|restart)
```

sys-container (raon) get URL (source-interface IFNAME|)

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: url

Attribute Type: string

Attribute Name: source-interface

Attribute Type: string

Netconf RPC payload

```
<sys-container-get xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
  <type>raon</type>
  <url>URL</url>
  <source-interface>IFNAME</source-interface>
</sys-container-get>
```

Command Syntax

```
sys-container (raon) get URL (source-interface IFNAME|)
```

sys-container (raon) remove file FILENAME

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: file

Attribute Type: string

Netconf RPC payload

```
<sys-container-remove xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
```

```
<type>raon</type>
<file>FILENAME</file>
</sys-container-remove>
```

Command Syntax

```
sys-container (raon) remove file FILENAME
```

sys-container (raon) verify image FILEPATH signature FILEPATH

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: image

Attribute Type: string

Attribute Name: signature

Attribute Type: string

Netconf RPC payload

```
<sys-container-verify xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
  <type>raon</type>
  <image>FILEPATH</image>
  <signature>FILEPATH</signature>
</sys-container-verify>
```

Command Syntax

```
sys-container (raon) verify image FILEPATH signature FILEPATH
```

sys-container cancel download

Netconf RPC payload

```
<sys-container-cancel-download xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sys-update"/>
```

Command Syntax

```
sys-container cancel download
```

IPI-MRIB-IPV4

Configure multicast routing enable

Use this attribute to turn on/off multicast routing on the router when turned off, the multicast protocol daemon remains present, but does not perform multicast functions. When multicast routing is enabled, the MRIB re-creates tunnels, and starts processing any VIF addition/deletion requests, MRT addition/deletion requests, and any multicast forwarding events.

Attribute Name: multicast-routing-enable

Attribute Type: uint8

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv4>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        </multicast-routing-enable><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </ipv4>
</mrib>
```

Command Syntax

```
ip multicast-routing (vrf WORD|)
```

Configure maximum routes

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded.

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv4>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          </config>
          <route-limit>
            <config>
              <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
            </config>
          </route-limit>
        </vrf>
      </vrfs>
    </ipv4>
  </mrib>
```

Command Syntax

```
ip multicast (vrf WORD|) route-limit <1-2147483647>
```

Configure warning threshold

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded. If the threshold parameter is set, a threshold warning message is generated when this threshold is exceeded and the message continues to occur until the number of mroutes reaches the limit set by the limit argument.

Attribute Name: warning-threshold

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv4>
    <vrfs>
      <vrf>
        <vrf-name>WORD</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          </config>
          <route-limit>
            <config>
              <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
              <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
            </config>
          </route-limit>
        </vrf>
      </vrfs>
    </ipv4>
  </mrib>
```

Command Syntax

```
ip multicast (vrf WORD|) route-limit <1-2147483647> <1-2147483647>
```

Configure options

Use this attribute to specify debug options

Attribute Name: options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrrib-msg|mtrace|mtrace-detail)

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv4>
    <vrfs>
      <vrf>
```

```

    <vrf-name>WORD</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
  </config>
  <debug>
  <config>
    <options>all</options> <!-- operation="delete"-->
  </config>
</debug>
</vrf>
</vrf>
</vrf>
</ip>
</mrib>

```

Command Syntax

```
debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrib-msg|mtrace|mtrace-detail)
```

Configure ttl threshold

Use this attribute to configure the time-to-live (TTL) threshold of packets being forwarded out of an interface. Only multicast packets with a TTL value greater than the threshold are forwarded out of the interface.

Attribute Name: ttl-threshold

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ip>
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <ttl-threshold>1</ttl-threshold> <!-- operation="delete"-->
  </interface>
  </interfaces>
  </ip>
</mrib>

```

Command Syntax

```
ip multicast ttl-threshold <1-255>
```

debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm- msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>WORD</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-mrib-ipv4_mrib-ipv4-terminal-debug-on>
```

Command Syntax

```
debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrib-msg|mtrace|mtrace-detail)
```

no debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm- msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-terminal-debug-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>WORD</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-mrib-ipv4_mrib-ipv4-terminal-debug-off>
```

Command Syntax

```
no debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrib-msg|mtrace|mtrace-detail)
```

clear ip mroute (vrf NAME|) *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <all-routes>CML_EMPTY_T</all-routes>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-all>
```

Command Syntax

```
clear ip mroute (vrf NAME|) *
```

clear ip mroute (vrf NAME|) A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-group xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-group>
```

Command Syntax

```
clear ip mroute (vrf NAME|) A.B.C.D
```

clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
  <source-address>A.B.C.D</source-address>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-source-group>
```

Command Syntax

```
clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D
```

clear ip mroute (vrf NAME|) statistics *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-all xmlns="http://
www.ipinfusion.com/yāng/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <all-routes>CML_EMPTY_T</all-routes>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-all>
```

Command Syntax

```
clear ip mroute (vrf NAME|) statistics *
```

clear ip mroute (vrf NAME|) statistics A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-group xmlns="http://
www.ipinfusion.com/yāng/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-group>
```

Command Syntax

```
clear ip mroute (vrf NAME|) statistics A.B.C.D
```

clear ip mroute (vrf NAME|) statistics A.B.C.D A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-source-group xmlns="http://
www.ipinfusion.com/yāng/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
  <source-address>A.B.C.D</source-address>
</ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-source-group>
```

Command Syntax

```
clear ip mroute (vrf NAME|) statistics A.B.C.D A.B.C.D
```

snmp restart mrib

Netconf RPC payload

```
<ipi-mrib-ipv4_mrib-ipv4-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib"/>
```

Command Syntax

```
snmp restart mrib
```

IPI-MRIB-IPV6

Configure multicast routing enable

Use this attribute to turn on/off multicast routing on the router when turned off, the multicast protocol daemon remains present, but does not perform multicast functions. When multicast routing is enabled, the MRIB re-creates tunnels, and starts processing any VIF addition/deletion requests, MRT addition/deletion requests, and any multicast forwarding events.

Attribute Name: multicast-routing-enable

Attribute Type: uint8

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv6>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        </multicast-routing-enable><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </ipv6>
</mrib>
```

Command Syntax

```
ipv6 multicast-routing (vrf NAME|)
```

Configure maximum routes

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded.

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv6>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <route-limit>
          <config>
            <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
          </config>
        </route-limit>
      </vrf>
    </vrfs>
  </ipv6>
</mrib>
```

Command Syntax

```
ipv6 multicast (vrf NAME|) route-limit <1-2147483647>
```

Configure warning threshold

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded. If the threshold parameter is set, a threshold warning message is generated when this threshold is exceeded and the message continues to occur until the number of mroutes reaches the limit set by the limit argument.

Attribute Name: warning-threshold

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv6>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </ipv6>
</mrib>
```

```

    <route-limit>
    <config>
        <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
        <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
    </config>
</route-limit>
</vrf>
</vrf>
</ipv6>
</mrib>

```

Command Syntax

```
ipv6 multicast (vrf NAME|) route-limit <1-2147483647> <1-2147483647>
```

Configure options

Use this attribute to specify debug options

Attribute Name: options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf edit-config payload

```

<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <ipv6>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
      </config>
      <debug>
        <config>
          <options>all</options> <!-- operation="delete"-->
        </config>
      </debug>
    </vrf>
  </vrf>
</ipv6>
</mrib>

```

Command Syntax

```
debug ipv6 mrib (vrf NAME|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrib-msg|mtrace|mtrace-detail)
```

debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm- msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>WORD</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-mrib-ipv6_mrib-ipv6-terminal-debug-on>
```

Command Syntax

```
debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrrib-msg|mtrace|mtrace-detail)
```

no debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register- msg|nsm-msg|mrrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-terminal-debug-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>WORD</vrf-name>
  <terminal-debug-options>all</terminal-debug-options>
</ipi-mrib-ipv6_mrib-ipv6-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
msg|mrrib-msg|mtrace|mtrace-detail)
```

clear ipv6 mroute (vrf NAME|) *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <all-routes>CML_EMPTY_T</all-routes>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-all>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) *
```

clear ipv6 mroute (vrf NAME|) X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-group xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X
```

clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
  <source-address>X:X::X:X</source-address>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-source-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X
```

clear ipv6 mroute (vrf NAME|) statistics *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <all-routes>CML_EMPTY_T</all-routes>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-all>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) statistics *
```

clear ipv6 mroute (vrf NAME|) statistics X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) statistics X:X::X:X
```

clear ipv6 mroute (vrf NAME|) statistics X:X::X:X X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
  <source-address>X:X::X:X</source-address>
</ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-source-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) statistics X:X::X:X X:X::X:X
```

IPI-IGMP

Configure disable ssm map

Use this attribute to enable the IGMP operation on an interface. This command enables IGMP operation in standalone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This command will has no effect on interfaces configured for IGMP proxy.

Attribute Name: disable-ssm-map

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      </disable-ssm-map><!-- operation="delete"-->
    </vrf>
  </vrfs>
</igmp>
```

Command Syntax

```
no ip igmp (vrf NAME|) ssm-map enable
```

Configure disable tos check

Use this attribute to disable TOS check for Internetwork Control

Attribute Name: disable-tos-check

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      </disable-tos-check><!-- operation="delete"-->
    </vrf>
  </vrfs>
```

```
</igmp>
```

Command Syntax

```
no ip igmp (vrf NAME|) tos-check
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <group-membership-control>
      <config>
        <member-limit>1</member-limit> <!-- operation="delete"-->
        <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"-->
      </config>
    </group-membership-control>
  </vrf>
</vrfs>
</igmp>
```

Command Syntax

```
ip igmp (vrf NAME|) limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <group-membership-control>
      <config>
        <member-limit>1</member-limit> <!-- operation="delete"-->
      </config>
    </group-membership-control>
  </vrf>
</vrfs>
</igmp>
```

Command Syntax

```
ip igmp (vrf NAME|) limit <1-2097152>
```

Configure source

Use this attribute to specify the static mode of defining SSM mapping. SSM mapping statically assigns sources to IGMPv1 and IGMPv2 groups to translate such (star G) groups memberships to (S,G) memberships for use with PIMSSM. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <ssm>
      <static-mappings>
        <static-mapping> <!-- operation="delete"-->
          <source>A.B.C.D</source>
        </static-mapping>
      </static-mappings>
    </ssm>
  </vrf>
</vrfs>
</igmp>
```

```

    </config>
    <group-ranges-acl>WORD</group-ranges-acl>
</static-mapping>
</static-mappings>
</ssm>
</vrf>
</vrfs>
</igmp>

```

Command Syntax

```
ip igmp (vrf NAME|) ssm-map static WORD A.B.C.D
```

Configure options

Use this attribute to enable igmp debugging configurations

Attribute Name: options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrfs>
<vrf>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <debug>
<config>
  <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</vrf>
</vrfs>
</igmp>

```

Command Syntax

```
debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: terminal-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<igmp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
<terminal-debug-options>all</terminal-debug-options>
</igmp-terminal-debug-on>
```

Command Syntax

```
debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

no debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: terminal-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<igmp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
<terminal-debug-options>all</terminal-debug-options>
</igmp-terminal-debug-off>
```

Command Syntax

```
no debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

clear ip igmp (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<igmp-clear-all-groups-for-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
</igmp-clear-all-groups-for-vrf>
```

Command Syntax

```
clear ip igmp (vrf NAME|)
```

clear ip igmp (vrf NAME|) group *

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: clear-all

Attribute Type: empty

Netconf RPC payload

```
<igmp-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrf-name>NAME</vrf-name>
  <clear-all>CML_EMPTY_T</clear-all>
</igmp-clear-all-groups>
```

Command Syntax

```
clear ip igmp (vrf NAME|) group *
```

clear ip igmp (vrf NAME|) group A.B.C.D IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<igmp-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
  <if-name>IFNAME</if-name>
</igmp-clear-group-on-interface>
```

Command Syntax

```
clear ip igmp (vrf NAME|) group A.B.C.D IFNAME
```

clear ip igmp (vrf NAME|) interface IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<igmp-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrf-name>NAME</vrf-name>
  <if-name>IFNAME</if-name>
```

```
</igmp-clear-all-groups-on-interface>
```

Command Syntax

```
clear ip igmp (vrf NAME|) interface IFNAME
```

clear ip igmp (vrf NAME|) group A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<igmp-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <vrf-name>NAME</vrf-name>
  <group-address>A.B.C.D</group-address>
</igmp-clear-group>
```

Command Syntax

```
clear ip igmp (vrf NAME|) group A.B.C.D
```

IPI-IGMP-INTERFACE

Configure offlink log suppress

Use this attribute to configure off-link log-suppress for IGMP.

Attribute Name: offlink-log-suppress

Attribute Type: empty

Attribute Name: allow-offlink-host

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </allow-offlink-host><!-- operation="delete"-->
      </config>
      </offlink-log-suppress><!-- operation="delete"-->
    </interface>
  </interfaces>
```

```
</igmp>
```

Command Syntax

```
ip igmp offlink (log-suppress|)
```

Configure enabled

Use this attribute to enable the IGMP operation on an interface. This attribute enables IGMP operation in standalone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This attribute will have no effect on interfaces configured for IGMP proxy

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enabled><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp
```

Configure last member query count

Use this attribute to set the last-member query-count value. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: last-member-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <last-member-query-count>2</last-member-query-count> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

```
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp last-member-query-count <2-7>
```

Configure last member query interval

Use this attribute to configure the frequency at which the router sends IGMP group-specific host query messages. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: last-member-query-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <last-member-query-interval>1000</last-member-query-interval> <!--
operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp last-member-query-interval <1000-25500>
```

Configure querier timeout

Use this attribute to set the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: querier-timeout

Attribute Type: uint16

Default Value: 255

Attribute Range: 60-300

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
```

```

    <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
    <querier-timeout>60</querier-timeout> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp querier-timeout <60-300>
```

Configure query interval

Use this attribute to set the frequency of sending IGMP host query messages. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: query-interval

Attribute Type: uint16

Default Value: 125

Attribute Range: 1-18000

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <query-interval>1</query-interval> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>

```

Command Syntax

```
ip igmp query-interval <1-18000>
```

Configure query max response time

Use this attribute to set the maximum response time advertised in IGMP queries. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: query-max-response-time

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-240

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <query-max-response-time>1</query-max-response-time> <!-- operation="delete"-->
    ->
  </interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp query-max-response-time <1-240>
```

Configure startup query interval

Use this attribute to set a query interval value for IGMP

Attribute Name: startup-query-interval

Attribute Type: uint16

Default Value: 31

Attribute Range: 1-18000

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <startup-query-interval>1</startup-query-interval> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>

```

Command Syntax

```
ip igmp startup-query-interval <1-18000>
```

Configure startup query count

Use this attribute to set a startup query count for IGMP

Attribute Name: startup-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <startup-query-count>2</startup-query-count> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp startup-query-count <2-10>
```

Configure robustness variable

Use this attribute to set the robustness variable value on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: robustness-variable

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <robustness-variable>2</robustness-variable> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp robustness-variable <2-7>
```

Configure version

Use this attribute to set the current IGMP protocol version on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: version

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-3

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <version>1</version> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp version <1-3>
```

Configure require router alert option

Use this attribute to configure strict Router Advertisement validation for IGMP.

Attribute Name: require-router-alert-option

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </require-router-alert-option><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp ra-option
```

Configure enable proxy service

Use this attribute to designate an interface to be the IGMP proxy-service (upstream host-side) interface, thus enabling IGMP host-side protocol operation on this interface. All associated downstream router-side interfaces will have their memberships consolidated on this interface, according to IGMP host-side functionality

Attribute Name: enable-proxy-service

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <proxy>
      <config>
        </enable-proxy-service><!-- operation="delete"-->
      </config>
    </proxy>
  </interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp proxy-service
```

Configure mroute proxy interface

Use this attribute to specify the IGMP Proxy service interface with which to be associated. IGMP router-side protocol operation is enabled only when the specified upstream proxy-service interface is functional.

Attribute Name: mroute-proxy-interface

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <proxy>
      <config>
        <mroute-proxy-interface>IFNAME</mroute-proxy-interface> <!--
operation="delete"-->
      </config>
    </proxy>
  </interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp mroute-proxy IFNAME
```

Configure unsolicited report interval

Use this attribute to set an unsolicited report interval for an interface designated as an IGMP proxy

Attribute Name: unsolicited-report-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <proxy>
          <config>
            <unsolicited-report-interval>1000</unsolicited-report-interval> <!--
operation="delete"-->
          </config>
        </proxy>
      </interface>
    </interfaces>
  </igmp>
```

Command Syntax

```
ip igmp proxy unsolicited-report-interval <1000-25500>
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
```



```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <group-membership-control>
  <config>
    <member-limit>1</member-limit> <!-- operation="delete"-->
    <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"-->
  </config>
</group-membership-control>
</interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: member-limit

Attribute Type: uint32

Attribute Range: 1-2097152

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <group-membership-control>
  <config>
    <member-limit>1</member-limit> <!-- operation="delete"-->
  </config>
</group-membership-control>
</interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp limit <1-2097152>
```

Configure access group name

Use this attribute to control the multicast local-membership groups learned on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols, IGMP proxy.

Attribute Name: access-group-name

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <group-membership-control>
        <config>
          <access-group-name>WORD</access-group-name> <!-- operation="delete"-->
        </config>
      </group-membership-control>
    </interface>
  </interfaces>
</igmp>
```

Command Syntax

```
ip igmp access-group WORD
```

Configure immediate leave groups list

In IGMP version 2, use this attribute to minimize the leave latency of IGMP memberships. This attribute is used when only one receiver host is connected to each interface. This command applies to interfaces configured for IGMP Layer-3 multicast protocols, IGMP Proxy.

Attribute Name: immediate-leave-groups-list

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <group-membership-control>
        <config>
```

```

        <immediate-leave-groups-list>WORD</immediate-leave-groups-list> <!--
operation="delete"-->
    </config>
</group-membership-control>
</interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp immediate-leave group-list WORD
```

Configure group address

Use this attribute to statically configure group membership entries on an interface. To statically add only a group membership, do not specify any parameters. This attribute applies to IGMP operation on a specific interface to statically add group and/or source records on a VLAN interface to statically add group and/or source records.

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <asm-static-groups>
        <asm-static-group> <!-- operation="delete"-->
          <group-address>A.B.C.D</group-address>
          <config>
            <group-address>A.B.C.D</group-address>
          </config>
        </asm-static-group>
      </asm-static-groups>
    </interface>
  </interfaces>
</igmp>

```

Command Syntax

```
ip igmp static-group A.B.C.D
```

Configure source

Use this attribute to statically configure the group to be joined.

Attribute Name: source

Attribute Type: union

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <ssm-static-groups>
  <ssm-static-group> <!-- operation="delete"-->
    <source>ssm-map</source>
    <config>
      <source>ssm-map</source>
      <group-address>A.B.C.D</group-address>
    </config>
    <group-address>A.B.C.D</group-address>
  </ssm-static-group>
</ssm-static-groups>
</interface>
</interfaces>
</igmp>

```

Command Syntax

```
ip igmp static-group A.B.C.D source (ssm-map|A.B.C.D)
```

Configure name

Use this attribute to configure a join multicast group.

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <asm-join-groups>
  <asm-join-group> <!-- operation="delete"-->
    <group-address>A.B.C.D</group-address>
    <config>
      <group-address>A.B.C.D</group-address>
    </config>
  </asm-join-group>
</asm-join-groups>
</interface>
</interfaces>

```

```
</igmp>
```

Command Syntax

```
ip igmp join-group A.B.C.D
```

Configure ssm-join-groups source

Use this attribute to statically configure the group to be joined.

Attribute Name: source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <ssm-join-groups>
  <ssm-join-group> <!-- operation="delete"-->
    <source>A.B.C.D</source>
    <config>
      <source>A.B.C.D</source>
      <group-address>A.B.C.D</group-address>
    </config>
    <group-address>A.B.C.D</group-address>
  </ssm-join-group>
</ssm-join-groups>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp join-group A.B.C.D source A.B.C.D
```

IPI-IGMP-SNOOPING

Configure disable igmp snooping

Use this attribute to disable IGMP Snooping. When this attribute is given in the Configure mode, IGMP snooping is enabled at switch level on all the vlans in switch. When this attribute is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: disable-igmp-snooping

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <global>
    <config>
      </disable-igmp-snooping><!-- operation="delete"-->
    </config>
  </global>
</igmp-snooping>
```

Command Syntax

```
no igmp snooping
```

Configure disable report suppression

Use this attribute to disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: disable-report-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <global>
    <config>
      </disable-report-suppression><!-- operation="delete"-->
    </config>
  </global>
</igmp-snooping>
```

Command Syntax

```
no igmp snooping report-suppression
```

Configure unknown multicast action

Use this attribute to set the action to be taken on receiving I2 unknown multicast packets.

Attribute Name: unknown-multicast-action

Attribute Type: enum (flood|discard)

Default Value: flood

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <global>
    <config>
      <unknown-multicast-action>flood</unknown-multicast-action> <!--
operation="delete"-->
    </config>
  </global>
</igmp-snooping>
```

Command Syntax

```
12 unknown mcast (flood|discard)
```

Configure options

Enable IGMP snooping debug

Attribute Name: options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <debug>
    <config>
      <options>decode</options> <!-- operation="delete"-->
    </config>
  </debug>
</igmp-snooping>
```

Command Syntax

```
debug igmp snooping (decode|encode|events|fsm|tib|all)
```

Configure igmp snooping

Use this attribute to enable or disable IGMP Snooping. When this command is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: igmp-snooping

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <igmp-snooping>disable</igmp-snooping> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
no ip igmp snooping
```

Configure report suppression

Use this attribute to enable or disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <report-suppression>disable</report-suppression> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
no ip igmp snooping report-suppression
```

Configure enable fast leave

Use this attribute to enable IGMP Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the IGMP group-membership is removed, as soon as an IGMP leave group message is received without sending out a group-specific query

Attribute Name: enable-fast-leave

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-fast-leave><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
ip igmp snooping fast-leave
```

Configure mrouter interface name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for IGMP Snooping in that VLAN.

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-
->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
ip igmp snooping mrouter interface IFNAME
```

Configure enable querier

Use this attribute to enable IGMP snooping querier functionality on a VLAN when IGMP is not enabled on the particular VLAN. When enabled, the IGMP Snooping querier sends out periodic IGMP queries for all interfaces on that VLAN. The IGMP Snooping querier uses the 0.0.0.0 source IP address, because it only masquerades as a proxy IGMP querier for faster network convergence. It does not start, or automatically cease, the IGMP Querier operation if it detects query message(s) from a multicast router. It restarts as the IGMP Snooping querier if no queries are seen within the other querier interval.

Attribute Name: enable-querier

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-querier><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
ip igmp snooping querier
```

Configure name

Use this attribute to enable or disable IGMP Snooping. When this command is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: igmp-snooping

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <igmp-snooping>disable</igmp-snooping> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping (disable|enable)
```

Configure interface enable-fast-leave

Use this attribute to enable IGMP Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the IGMP group-membership is removed, as soon as an IGMP leave group message is received without sending out a group-specific query

Attribute Name: enable-fast-leave

Attribute Type: empty

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-fast-leave><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping fast-leave
```

Configure interface report-suppression

Use this attribute to enable or disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <report-suppression>disable</report-suppression> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping report-suppression (disable|enable)
```

Configure interface mrouter-interface-name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for IGMP Snooping in that VLAN.

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping mrouter interface IFNAME
```

Configure interface enable-querier

Use this attribute to enable IGMP snooping querier functionality on a VLAN when IGMP is not enabled on the particular VLAN. When enabled, the IGMP Snooping querier sends out periodic IGMP queries for all interfaces on that VLAN. The IGMP Snooping querier uses the 0.0.0.0 source IP address, because it only masquerades as a proxy IGMP querier for faster network convergence. It does not start, or automatically cease, the IGMP Querier operation if it detects query message(s) from a multicast router. It restarts as the IGMP Snooping querier if no queries are seen within the other querier interval.

Attribute Name: enable-querier

Attribute Type: empty

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-querier><!-- operation="delete"-->
    </interface>
  </interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping querier
```

Configure source address

Use this attribute to set the Source Address to be joined

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <static-groups>
      <ssm-groups>
        <ssm-group>
          <interface-name>IFNAME</interface-name>
        </ssm-group>
      </ssm-groups>
    </static-groups>
  </interface>
</interfaces>
</igmp-snooping>
```

```

<config>
  <interface-name>IFNAME</interface-name>
  <source-address>A.B.C.D</source-address>
  <group-address>A.B.C.D</group-address>
</config>
  <source-address>A.B.C.D</source-address>
  <group-address>A.B.C.D</group-address>
</ssm-group>
</ssm-groups>
</static-groups>
</interface>
</interfaces>
</igmp-snooping>

```

Command Syntax

```
igmp snooping static-group A.B.C.D source A.B.C.D interface IFNAME
```

Configure group address

Use this attribute to set the static group-address to be joined

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <static-groups>
    <ssm-groups>
    <ssm-group>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>IFNAME</interface-name>
        <source-address>A.B.C.D</source-address>
        <group-address>A.B.C.D</group-address>
      </config>
        <source-address>A.B.C.D</source-address>
        <group-address>A.B.C.D</group-address>
      </ssm-group>
    </ssm-groups>
  </static-groups>
</interface>
</interfaces>
</igmp-snooping>

```

Command Syntax

```
igmp snooping static-group A.B.C.D interface IFNAME
```

clear igmp snooping group A.B.C.D IFNAME

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<igmp-snooping-clear-group-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <group-address>A.B.C.D</group-address>
  <interface-name>IFNAME</interface-name>
</igmp-snooping-clear-group-interface>
```

Command Syntax

```
clear igmp snooping group A.B.C.D IFNAME
```

clear igmp snooping interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<igmp-snooping-clear-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <interface-name>IFNAME</interface-name>
</igmp-snooping-clear-interface>
```

Command Syntax

```
clear igmp snooping interface IFNAME
```

clear igmp snooping group *

Netconf RPC payload

```
<igmp-snooping-clear-group-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping"/>
```

Command Syntax

```
clear igmp snooping group *
```

clear igmp snooping

Netconf RPC payload

```
<igmp-snooping-clear-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping"/>
```

Command Syntax

```
clear igmp snooping
```

clear igmp snooping group A.B.C.D

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<igmp-snooping-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <group-address>A.B.C.D</group-address>
</igmp-snooping-clear-group>
```

Command Syntax

```
clear igmp snooping group A.B.C.D
```

debug igmp snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
<igmp-snooping-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <terminal-debug-options>decode</terminal-debug-options>
</igmp-snooping-terminal-debug-on>
```

Command Syntax

```
debug igmp snooping (decode|encode|events|fsm|tib|all)
```

no debug igmp snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
<igmp-snooping-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
  <terminal-debug-options>decode</terminal-debug-options>
</igmp-snooping-terminal-debug-off>
```

Command Syntax

```
no debug igmp snooping (decode|encode|events|fsm|tib|all)
```

IPI-MLD-SNOOPING

Configure disable mld snooping

Use this attribute to enable MLD Snooping. When this command is given in the Configure mode, MLD Snooping is enabled at the switch level. When this attribute is given at the VLAN interface level, 5MLD Snooping is enabled for that VLAN.

Attribute Name: disable-mld-snooping

Attribute Type: uint8

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <global>
    <config>
      </disable-mld-snooping><!-- operation="delete"-->
    </config>
  </global>
</mld-snooping>
```

Command Syntax

```
no mld snooping
```

Configure disable report suppression

Use this attribute to enable report suppression for MLD version 1.

Attribute Name: disable-report-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <global>
    <config>
      </disable-report-suppression><!-- operation="delete"-->
    </config>
  </global>
</mld-snooping>
```

Command Syntax

```
no mld snooping report-suppression
```

Configure options

Use this attribute to enable mld snooping debugging configurations

Attribute Name: options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <debug>
    <config>
      <options>decode</options> <!-- operation="delete"-->
    </config>
  </debug>
</mld-snooping>
```

Command Syntax

```
debug mld snooping (decode|encode|events|fsm|tib|all)
```

Configure report suppression

Use this attribute to enable or disable report suppression for MLD version 1, and 2 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <report-suppression>disable</report-suppression> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </mld-snooping>
```

Command Syntax

```
no mld snooping report-suppression
```

Configure mld snooping

Use this attribute to enable MLD Snooping. When this attribute is given at the VLAN interface level, MLD Snooping is enabled for that VLAN.

Attribute Name: mld-snooping

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mld-snooping>enable</mld-snooping> <!-- operation="delete"-->
    </interface>
  </interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping (disable|enable)
```

Configure enable fast leave

Use this attribute to enable MLD Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the MLD group-membership is removed, as soon as an MLD leave group message is received without sending out a group-specific query.

Attribute Name: enable-fast-leave

Attribute Type: empty

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-fast-leave><!-- operation="delete"-->
    </interface>
  </interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping fast-leave
```

Configure name

Use this attribute to enable or disable report suppression for MLD version 1, and 2 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <report-suppression>disable</report-suppression> <!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping report-suppression (disable|enable)
```

Configure mrouter interface name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for MLD Snooping in that VLAN

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-->
->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping mrouter interface IFNAME
```

Configure enable querier

Use this attribute to enable MLD querier operation on a subnet (VLAN) when no multicast routing protocol is configured in the subnet VLAN. When enabled, the MLD Snooping querier sends out periodic MLD queries for all interfaces on that VLAN. The MLD Snooping querier uses the 0.0.0.0 source IP address, because it masquerades as a proxy MLD querier for faster network convergence. It does not start or automatically cease the MLD querier operation if it detects a query message from a multicast router. It restarts as MLD snooping querier if no queries are seen within another querier interval

Attribute Name: enable-querier

Attribute Type: empty

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </enable-querier><!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping querier
```

debug mld snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
<mld-snooping-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
mld-snooping">
  <terminal-debug-options>decode</terminal-debug-options>
</mld-snooping-terminal-debug-on>
```

Command Syntax

```
debug mld snooping (decode|encode|events|fsm|tib|all)
```

no debug mld snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
<mld-snooping-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-mld-snooping">
  <terminal-debug-options>decode</terminal-debug-options>
</mld-snooping-terminal-debug-off>
```

Command Syntax

```
no debug mld snooping (decode|encode|events|fsm|tib|all)
```

clear mld snooping group X:X::X:X IFNAME

Attribute Name: group-address

Attribute Type: string

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<mld-snooping-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <group-address>X:X::X:X</group-address>
  <interface-name>IFNAME</interface-name>
</mld-snooping-clear-group-on-interface>
```

Command Syntax

```
clear mld snooping group X:X::X:X IFNAME
```

clear mld snooping interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<mld-snooping-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <interface-name>IFNAME</interface-name>
</mld-snooping-clear-all-groups-on-interface>
```

Command Syntax

```
clear mld snooping interface IFNAME
```

clear mld snooping group X:X::X:X

Attribute Name: group-address

Attribute Type: string

Netconf RPC payload

```
<mld-snooping-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
  <group-address>X:X::X:X</group-address>
</mld-snooping-clear-group>
```

Command Syntax

```
clear mld snooping group X:X::X:X
```

clear mld snooping group *

Netconf RPC payload

```
<mld-snooping-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping"/>
```

Command Syntax

```
clear mld snooping group *
```

clear mld snooping

Netconf RPC payload

```
<mld-snooping-clear-all-groups-alias xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping"/>
```

Command Syntax

```
clear mld snooping
```

IPI-MLD

Configure disable ssm map

Use this attribute to enable/disable SSM mapping on the router

Attribute Name: disable-ssm-map

Attribute Type: empty

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      </disable-ssm-map><!-- operation="delete"-->
    </vrf>
  </vrfs>
</mld>
```

Command Syntax

```
no ipv6 mld (vrf NAME|) ssm-map enable
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states at the router level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <group-membership-control>
      <config>
        <member-limit>1</member-limit> <!-- operation="delete"-->
        <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"-->
      </config>
    </group-membership-control>
  </vrf>
</vrfs>
</mld>
```

Command Syntax

```
ipv6 mld (vrf NAME|) limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states at the router level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <group-membership-control>
```

```

<config>
  <member-limit>1</member-limit> <!-- operation="delete"-->
</config>
</group-membership-control>
</vrf>
</vrfs>
</mld>

```

Command Syntax

```
ipv6 mld (vrf NAME|) limit <1-2097152>
```

Configure source

Use this attribute to specify the static mcast source for SSM mapping. SSM mapping statically assigns sources to MLDv1 groups to translate such (star G) groups memberships to (S,G) memberships for use with PIM-SSM. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy.

Attribute Name: source

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <ssm>
    <static-mappings>
      <static-mapping> <!-- operation="delete"-->
        <source>X:X::X:X</source>
        <config>
          <source>X:X::X:X</source>
          <group-ranges-acl>WORD</group-ranges-acl>
        </config>
        <group-ranges-acl>WORD</group-ranges-acl>
      </static-mapping>
    </static-mappings>
  </ssm>
</mld>

```

Command Syntax

```
ipv6 mld (vrf NAME|) ssm-map static WORD X:X::X:X
```

Configure debug options

Use this attribute to enable mld debugging configurations

Attribute Name: debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <debug>
    <config>
      <debug-options>all</debug-options> <!-- operation="delete"-->
    </config>
  </debug>
</mld>
```

Command Syntax

```
debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: term-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<mld-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrf-name>NAME</vrf-name>
  <term-debug-options>all</term-debug-options>
</mld-terminal-debug-on>
```

Command Syntax

```
debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

no debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: term-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<mld-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrf-name>NAME</vrf-name>
  <term-debug-options>all</term-debug-options>
</mld-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

clear ipv6 mld (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<mld-clear-all-groups-alias xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
mld">
  <vrf-name>NAME</vrf-name>
</mld-clear-all-groups-alias>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|)
```

clear ipv6 mld (vrf NAME|) group *

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: clear-all

Attribute Type: empty

Netconf RPC payload

```
<mld-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <vrf-name>NAME</vrf-name>
  <clear-all>CML_EMPTY_T</clear-all>
</mld-clear-all-groups>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) group *
```

clear ipv6 mld (vrf NAME|) group X:X::X:X IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<mld-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
mld">
  <vrf-name>NAME</vrf-name>
  <group-address>X:X::X:X</group-address>
  <if-name>IFNAME</if-name>
</mld-clear-group-on-interface>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) group X:X::X:X IFNAME
```

clear ipv6 mld (vrf NAME|) interface IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<mld-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-mld">
  <vrf-name>NAME</vrf-name>
  <if-name>IFNAME</if-name>
</mld-clear-all-groups-on-interface>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) interface IFNAME
```

clear ipv6 mld (vrf NAME|) group X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<mld-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrf-name>NAME</vrf-name>
<group-address>X:X::X:X</group-address>
</mld-clear-group>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) group X:X::X:X
```

IPI-MLD-INTERFACE

Configure enabled

Use this attribute to enable the MLD protocol operation on an interface. This attribute enables MLD protocol operation in stand-alone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This attribute will have no effect on interfaces configured for MLD Proxy.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </enabled><!-- operation="delete"-->
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld
```

Configure last member query count

Use this attribute to set the last-member query-count value. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: last-member-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```

<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <last-member-query-count>2</last-member-query-count> <!-- operation="delete"-
->
    </interface>
  </interfaces>
</mld>

```

Command Syntax

```
ipv6 mld last-member-query-count <2-7>
```

Configure last member query interval

Use this attribute to set the frequency at which the router sends MLD group-specific host query messages. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy

Attribute Name: last-member-query-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```

<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <last-member-query-interval>1000</last-member-query-interval> <!--
operation="delete"-->
    </interface>
  </interfaces>
</mld>

```

Command Syntax

```
ipv6 mld last-member-query-interval <1000-25500>
```

Configure querier timeout

Use this attribute to configure the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: querier-timeout

Attribute Type: uint16

Default Value: 250

Attribute Range: 60-300

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <querier-timeout>60</querier-timeout> <!-- operation="delete"-->
    </interface>
  </interfaces>
</mld>
```

Command Syntax

```
ipv6 mld querier-timeout <60-300>
```

Configure query interval

Use this attribute to set the frequency of sending MLD host query messages. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: query-interval

Attribute Type: uint16

Default Value: 125

Attribute Range: 1-18000

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <query-interval>1</query-interval> <!-- operation="delete"-->
    </interface>
  </interfaces>
</mld>
```

Command Syntax

```
ipv6 mld query-interval <1-18000>
```

Configure query max response time

Use this attribute to set the maximum response time advertised in MLD queries. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: query-max-response-time

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-240

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <query-max-response-time>1</query-max-response-time> <!-- operation="delete"-->
->
    </interface>
  </interfaces>
</mld>
```

Command Syntax

```
ipv6 mld query-max-response-time <1-240>
```

Configure startup query interval

Use this attribute to set a startup query interval value for MLD

Attribute Name: startup-query-interval

Attribute Type: uint16

Default Value: 31

Attribute Range: 1-18000

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <startup-query-interval>1</startup-query-interval> <!-- operation="delete"-->
    </interface>
  </interfaces>
</mld>
```

Command Syntax

```
ipv6 mld startup-query-interval <1-18000>
```

Configure startup query count

Use this attribute to set a startup query count for MLD

Attribute Name: startup-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <startup-query-count>2</startup-query-count> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </mld>
```

Command Syntax

```
ipv6 mld startup-query-count <2-10>
```

Configure robustness variable

Use this attribute to set the robustness variable value on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: robustness-variable

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <robustness-variable>2</robustness-variable> <!-- operation="delete"-->
      </interface>
    </interfaces>
  </mld>
```



```
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld robustness-variable <2-7>
```

Configure version

Use this attribute to set the current MLD protocol version on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: version

Attribute Type: uint8

Attribute Range: 1-2

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <version>1</version> <!-- operation="delete"-->
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld version <1-2>
```

Configure enable proxy service

Use this attribute to designate an interface to be the MLD proxy-service upstream host-side interface, thus enabling MLD host-side protocol operation on this interface. All associated downstream router-side interfaces will have their memberships consolidated on this interface, according to MLD host-side functionality. This attribute should not be used when configuring interfaces enabled for MLD in association with a multicast-routing protocol, otherwise the behavior will be undefined.

Attribute Name: enable-proxy-service

Attribute Type: empty

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <enable-proxy-service>
</interface>
</interfaces>
</mld>
```

```

    <proxy>
    <config>
        </enable-proxy-service><!-- operation="delete"-->
    </config>
</proxy>
</interface>
</interfaces>
</mld>

```

Command Syntax

```
ipv6 mld proxy-service
```

Configure mroute proxy interface

Use this attribute to specify the MLD Proxy service (upstream host-side) interface with which to be associated. MLD router-side protocol operation is enabled only when the specified upstream proxy-service interface is functional. This attribute should not be configured on interfaces enabled for MLD in association with a multicast routing protocol otherwise, the behavior will be undefined.

Attribute Name: mroute-proxy-interface

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```

<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <proxy>
    <config>
        <mroute-proxy-interface>IFNAME</mroute-proxy-interface> <!--
operation="delete"-->
    </config>
    </proxy>
</interface>
</interfaces>
</mld>

```

Command Syntax

```
ipv6 mld mroute-proxy IFNAME
```

Configure unsolicited report interval

Use this attribute to set an unsolicited report interval for an interface designated as an MLD proxy

Attribute Name: unsolicited-report-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <proxy>
      <config>
        <unsolicited-report-interval>1000</unsolicited-report-interval> <!--
operation="delete"-->
      </config>
    </proxy>
  </interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld proxy unsolicited-report-interval <1000-25500>
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: limit-exception-acl

Attribute Type: string

Default Value: NULL

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <group-membership-control>
```

```

    <config>
      <member-limit>1</member-limit> <!-- operation="delete"-->
      <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"--
>
    </config>
  </group-membership-control>
</interface>
</interfaces>
</mld>

```

Command Syntax

```
ipv6 mld limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the limit on the maximum number of group membership states at either the router level, or for the specified interface. Once the specified number of group memberships is reached, all further local-memberships will be ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```

<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <group-membership-control>
          <config>
            <member-limit>1</member-limit> <!-- operation="delete"-->
          </config>
        </group-membership-control>
      </interface>
    </interfaces>
  </mld>

```

Command Syntax

```
ipv6 mld limit <1-2097152>
```

Configure access group name

Use this attribute to control the multicast local-membership groups learned on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD proxy.

Attribute Name: access-group-name

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <group-membership-control>
        <config>
          <access-group-name>WORD</access-group-name> <!-- operation="delete"-->
        </config>
      </group-membership-control>
    </interface>
  </interfaces>
</mld>
```

Command Syntax

```
ipv6 mld access-group WORD
```

Configure immediate leave groups list

In MLD version 2, use this attribute to minimize the leave latency of MLD memberships. This attribute is used when only one receiver host is connected to each interface. This command applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Proxy.

Attribute Name: immediate-leave-groups-list

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <group-membership-control>
        <config>
          <immediate-leave-groups-list>WORD</immediate-leave-groups-list> <!--
operation="delete"-->
        </config>
      </group-membership-control>
    </interface>
```

```
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld immediate-leave group-list WORD
```

Configure group address

Use this attribute to statically configure IPv6 group membership entries on an interface. To statically add only a group membership, do not specify any parameters. This attribute applies to MLD operation on a specific interface to statically add group and/or source records or to MLD Snooping on a VLAN interface to statically add group and/or source records.

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <asm-static-groups>
    <asm-static-group> <!-- operation="delete"-->
      <group-address>X:X::X:X</group-address>
      <config>
        <group-address>X:X::X:X</group-address>
      </config>
    </asm-static-group>
  </asm-static-groups>
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld static-group X:X::X:X
```

Configure source

Use this attribute to statically configure the multicast source for group to be joined.

Attribute Name: source

Attribute Type: union

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
```

```

<name>WORD</name>
<config>
  <name>WORD</name>
</config>
<ssm-static-groups>
<ssm-static-group> <!-- operation="delete"-->
  <source>ssm-map</source>
  <config>
    <source>ssm-map</source>
    <group-address>X:X::X:X</group-address>
  </config>
  <group-address>X:X::X:X</group-address>
</ssm-static-group>
</ssm-static-groups>
</interface>
</interfaces>
</mld>

```

Command Syntax

```
ipv6 mld static-group X:X::X:X source (ssm-map|X:X::X:X)
```

IPI-ROUTEMAP

Configure action

Use this attribute to enter the route-map mode and to permit or deny match/set operations. If deny is specified, and the match criteria are met, the route is not redistributed, and any other route maps with the same map tag are not examined. If permit is specified, and the match criteria are met, the route is redistributed as specified by the set actions. If the match criteria are not met, the next route map with the same tag is tested.

Attribute Name: action

Attribute Type: enum (permit|deny)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
  <action>permit</action>
</routemap>
</routemaps>

```

Command Syntax

```
route-map WORD ((permit|deny)|) (<1-65535>|)
```

Configure continue to next sequence

The continue clause provides the capability to execute additional entries in a route map after an entry is executed with a successful match and set clauses. Example: the continue command allows multiple entries to be evaluated within a single route-map.

Attribute Name: continue-to-next-sequence

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <continue-on-match>
    <config>
      </continue-to-next-sequence><!-- operation="delete"-->
    </config>
  </continue-on-match>
</routemap>
</routemaps>
```

Command Syntax

```
continue
```

Configure next sequence number

Continue commands can be assigned optional sequence numbers that indicate the order in which clauses are to be evaluated.

Attribute Name: next-sequence-number

Attribute Type: uint32

Attribute Range: 2-65535

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <continue-on-match>
    <config>
      <next-sequence-number>2</next-sequence-number> <!-- operation="delete"-->
    </config>
  </continue-on-match>
</routemap>
</routemaps>
```



```

</config>
</continue-on-match>
</routemap>
</routemaps>

```

Command Syntax

```
continue <2-65535>
```

Configure interface name

Use this attribute to define the interface match criterion. This command specifies the next-hop interface name of a route to be matched

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match interface IFNAME
```

Configure metric

Use this attribute to match a metric of a route. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>

```

```

    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <metric>1</metric> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match metric <1-4294967295>
```

Configure vlan id

use this attribute to set match entry traffic based on a VLAN

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <vlan-id>VLAN</vlan-id> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match vlan VLAN
```

Configure mac access list name

use this attribute to set the match entry for mac-access list

Attribute Name: mac-access-list-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<config>
  <mac-access-list-name>WORD</mac-access-list-name> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match mac-list WORD
```

Configure tag

Use this command to set a tag value. The parameter is the route tag that is labeled by another routing protocol (BGP or other IGP when redistributing), because AS-external-LSA has a route-tag field in its LSAs. In addition, when using route-map, OcNOS can tag the LSAs with the appropriate tag value. Sometimes the tag matches with using route-map and sometimes, the value may be used by another application.

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<config>
  <tag>1</tag> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match tag <1-4294967295>
```

Configure route type

Use this attribute to match an external route type. AS-external LSA is either Type-1 or Type-2. External type-1 matches only Type 1 external routes and external type-2 matches only Type 2 external routes.

Attribute Name: route-type

Attribute Type: enum (type-1|type-2)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <route-type>type-1</route-type> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match route-type external (type-1|type-2)
```

Configure as path name

Use this command to match an autonomous system path access list. This command specifies the autonomous system path to be matched. If there is a match for the specified AS path, and permit is specified, the route is redistributed or controlled, as specified by the set action. If the match criteria are met, and deny is specified, the route is not redistributed or controlled. If the match criteria are not met then the route is neither accepted nor forwarded, irrespective of permit or deny specifications. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: as-path-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
```

```

    <route-map-name>WORD</route-map-name>
  </config>
  <route-map-name>WORD</route-map-name>
<match-condition>
<config>
    <as-path-name>WORD</as-path-name> <!-- operation="delete"-->
</config>
</match-condition>
</route-map>
</route-maps>

```

Command Syntax

```
match as-path WORD
```

Configure route origin

Use this attribute to match origin code. The origin attribute defines the origin of the path information. The `egp` parameter is indicated as an `e` in the routing table, and it indicates that the origin of the information is learned via EGP (Exterior Gateway Protocol). The `igp` parameter is indicated as an `i` in the routing table, and it indicates the origin of the path information is interior to the originating AS. The `incomplete` parameter is indicated as a `?` in the routing table, and indicates that the origin of the path information is unknown or learned through other means. If a static route is redistributed into BGP, the origin of the route is incomplete. This command specifies the origin to be matched. If there is a match for the specified origin, and `permit` is specified when you created the route-map, the route is redistributed or controlled as specified by the `set` action. If the match criteria are met, and `deny` is specified, the route is not redistributed or controlled. If the match criteria are not met, the route is neither accepted nor forwarded, irrespective of `permit` or `deny` specifications. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: `route-origin`

Attribute Type: `enum (egp|igp|incomplete)`

Netconf edit-config payload

```

<route-maps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <route-map>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <route-map-name>WORD</route-map-name>
    </config>
    <route-map-name>WORD</route-map-name>
  <match-condition>
    <config>
      <route-origin>egp</route-origin> <!-- operation="delete"-->
    </config>
  </match-condition>
</route-map>
</route-maps>

```

Command Syntax

```
match origin (egp|igp|incomplete)
```

Configure rpki state

Use this attribute to match rpki-state. The rpki-state attribute defines the BGP RPKI state information. The value of this attribute shall be compared with a results of RPKI ROA lookup.

Attribute Name: rpki-state

Attribute Type: enum (valid|not-found|invalid)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <rpki-state>valid</rpki-state> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match rpki (valid|not-found|invalid)
```

Configure evpn route type

Use this attribute to match evpn route type

Attribute Name: evpn-route-type

Attribute Type: enum (type-1|type-2|type-3|type-4|type-5|type-2-MAC-IP|type-2-MAC-ONLY)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <config>
      <evpn-route-type>type-1</evpn-route-type> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
```

```
</routemaps>
```

Command Syntax

```
match evpn-route-type (type-1|type-2|type-3|type-4|type-5|type-2-MAC-IP|type-2-
MAC-ONLY)
```

Configure route map

Use this attribute to specify a route-map as a match criteria.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
</match-condition>
<config>
  <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match route-map WORD
```

Configure packet max length

use this attribute to set match community maximum length

This command is supported when following feature are enabled PBR feature

Attribute Name: packet-max-length

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
```

```

    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<route-filter>
<packet-length-constraints> <!-- operation="delete"-->
  <packet-max-length>0</packet-max-length>
  <config>
    <packet-max-length>0</packet-max-length>
    <packet-min-length>0</packet-min-length>
  </config>
  <packet-min-length>0</packet-min-length>
</packet-length-constraints>
</route-filter>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match length <0-65535> <0-65535>
```

Configure community identifier

Use this attribute to specify the community to be matched. Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands. Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists. The values set by the match community command overrides the global values. The route that does not match at least one match clause is ignored.

Attribute Name: community-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
  <communities>
  <community> <!-- operation="delete"-->
    <community-identifier>RMAP_COMMUNITY_STRING_T</community-identifier>
    <config>
      <community-identifier>RMAP_COMMUNITY_STRING_T</community-identifier>
      <match-type>no-exact-match</match-type>
    </config>
  </community>
  </communities>
  </match-condition>
</routemap>
</routemaps>

```



```

    </config>
  </community>
</communities>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match community (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure extended community identifier

Use this attribute to match BGP external community list. Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands. Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists. The values set by this command overrides the global values. The route that does not match at least one match clause is ignored

Attribute Name: extended-community-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <extended-communities>
      <extended-community> <!-- operation="delete"-->
        <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-community-
identifier>
        <config>
          <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-
community-identifier>
          <match-type>no-exact-match</match-type>
        </config>
      </extended-community>
    </extended-communities>
  </match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match extcommunity (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure match type

Do exact matching of extcommunities

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <extended-communities>
      <extended-community>
        <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-community-
identifier>
        <config>
          <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-
community-identifier>
          </config>
          <match-type>0</match-type> <!-- operation="delete"-->
        </extended-community>
      </extended-communities>
    </match-condition>
  </routemap>
</routemaps>
```

Command Syntax

```
no match extcommunity exact-match
```

Configure large community list identifier

Use this attribute to specify the community to be matched. Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands. Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists. The values set by the match community command overrides the global values. The route that does not match at least one match clause is ignored.

Attribute Name: large-community-list-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
```

```

<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<match-communities>
<match-community> <!-- operation="delete"-->
  <large-community-list-identifier>RMAP_LARGE_COMMUNITY_STRING_T</large-community-
list-identifier>
  <config>
    <large-community-list-identifier>RMAP_LARGE_COMMUNITY_STRING_T</large-
community-list-identifier>
    <match-type>no-exact-match</match-type>
  </config>
</match-community>
</match-communities>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match large-community (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure ip access list name

Use this attribute to specify the match address of route. If there is a match for the specified IP address, and permit is specified, the route is redistributed or controlled, as specified by the set action. If the match criteria are met, and deny is specified then the route is not redistributed or controlled. If the match criteria are not met, the route is neither accepted nor forwarded, irrespective of permit or deny specifications. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: ip-access-list-name

Attribute Type: string

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
  <ipv4>
  <config>

```

```

        <ip-access-list-name>WORD</ip-access-list-name> <!-- operation="delete"-->
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ip address WORD
```

Configure ip prefix list name

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: ip-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
</match-condition>
<ipv4>
<config>
  <ip-prefix-list-name>WORD</ip-prefix-list-name> <!-- operation="delete"-->
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ip address prefix-list WORD
```

Configure peer access list name

Use this attribute to specify the match peer IPv4 address of a route.

Attribute Name: peer-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
```

```

<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<ipv4>
<config>
  <peer-access-list-name>WORD</peer-access-list-name> <!-- operation="delete"-->
>
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ip peer WORD
```

Configure next hop prefix list name

Use this attribute to specify the next-hop IP address match criterion using the prefix-list. This command matches the next-hop IP address of a route.

Attribute Name: next-hop-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<ipv4>
<config>
  <next-hop-prefix-list-name>WORD</next-hop-prefix-list-name> <!--
operation="delete"-->
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ip next-hop prefix-list WORD
```

Configure next hop access list name

Use this attribute to specify a next-hop address to be matched in a route-map. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: next-hop-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <ipv4>
      <config>
        <next-hop-access-list-name>WORD</next-hop-access-list-name> <!--
operation="delete"-->
      </config>
    </ipv4>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match ip next-hop WORD
```

Configure ipv6 address access list name

Use this attribute to specify the match address of route. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
  </routemap>
</routemaps>
```

```

    </config>
    <routermap-name>WORD</routermap-name>
  <match-condition>
    <ipv6>
      <config>
        <ipv6-address-access-list-name>WORD</ipv6-address-access-list-name> <!--
operation="delete"-->
      </config>
    </ipv6>
  </match-condition>
</routermap>
</routermaps>

```

Command Syntax

```
match ipv6 address WORD
```

Configure ipv6 prefix list name

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```

<routermaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routermap">
  <routermap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routermap-name>WORD</routermap-name>
    </config>
    <routermap-name>WORD</routermap-name>
  <match-condition>
    <ipv6>
      <config>
        <ipv6-prefix-list-name>WORD</ipv6-prefix-list-name> <!-- operation="delete"--
>
      </config>
    </ipv6>
  </match-condition>
</routermap>
</routermaps>

```

Command Syntax

```
match ipv6 address prefix-list WORD
```

Configure routemap name

Use this attribute to specify the match peer IPv6 address of a route.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: peer-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <match-condition>
    <ipv6>
      <config>
        <peer-access-list-name>WORD</peer-access-list-name> <!-- operation="delete"-->
      </config>
    </ipv6>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match ipv6 peer WORD
```

Configure sequence id

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: next-hop-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  </routemap>
</routemaps>
```



```

    <match-condition>
    <ipv6>
    <config>
        <next-hop-prefix-list-name>WORD</next-hop-prefix-list-name> <!--
operation="delete"-->
    </config>
</ipv6>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ipv6 next-hop prefix-list WORD
```

Configure next hop match string

Use this attribute to specify the next-hop address to be matched. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: next-hop-match-string

Attribute Type: union

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<match-condition>
<ipv6>
<config>
    <next-hop-match-string>RMAP_IPV6_NEXTHOP_T</next-hop-match-string>
</config>
</ipv6>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match ipv6 next-hop (WORD|X:X::X:X)
```

Configure mac list name

Use this attribute to match entries of a list.

Attribute Name: mac-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
</match-condition>
<mac>
<config>
  <mac-list-name>WORD</mac-list-name> <!-- operation="delete"-->
</config>
</mac>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match mac address list WORD
```

Configure metric value

Use this command to set a metric value for a route and influence external neighbors about the preferred path into an Autonomous System (AS). The preferred path is the one with a lower metric value. A router compares metrics for paths from neighbors in the same ASs. To compare metrics from neighbors coming from different ASs, use the `bgp always-compare-med` command. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: metric-value

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
```

```

        <metric-value>WORD</metric-value> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set metric WORD
```

Configure forward interface type

Use this attributes to discard routes based on policy/rules configured for a route map. Route maps can be applied to BGP neighbors. When this command is given for a route map and that route map is applied to a BGP neighbor, the discard route entries are added by BGP for the prefix permitted by the route map.

Attribute Name: forward-interface-type

Attribute Type: enum (null0|tunnel-te)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
  <forward-interface-type>null0</forward-interface-type> <!--
operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set interface (null0|tunnel-te)
```

Configure route tag

Use this attribute to set a tag value. The parameter is the route tag that is labeled by another routing protocol (BGP or other IGP when redistributing), because AS-external-LSA has a route-tag field in its LSAs. In addition, when using route-map, OcNOS can tag the LSAs with the appropriate tag value. Sometimes the tag matches with using route-map, and sometimes, the value may be used by another application.

Attribute Name: route-tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
  <route-tag>1</route-tag> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set tag <1-4294967295>
```

Configure weight

Use this attribute to set weights for the routing table. The weight value is used to assist in best path selection. It is assigned locally to a router. When there are several routes with a common destination, the routes with a higher weight value are preferred. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.

Attribute Name: weight

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
  <weight>0</weight> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set weight <0-65535>
```

Configure local preference

Use this attribute to set the BGP local preference path attribute

Attribute Name: local-preference

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <local-preference>0</local-preference> <!-- operation="delete"-->
    </config>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set local-preference <0-4294967295>
```

Configure route origin type

Use this command to set the BGP origin code. The origin attribute defines the origin of the path information. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: route-origin-type

Attribute Type: enum (egp|igp|incomplete)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
  </routemap>
</routemaps>
```

```

    </config>
    <route-map-name>WORD</route-map-name>
  <set-action>
    <config>
      <route-origin-type>egp</route-origin-type> <!-- operation="delete"-->
    </config>
  </set-action>
</route-map>
</route-maps>

```

Command Syntax

```
set origin (egp|igp|incomplete)
```

Configure metric type

Use this command to set the metric type for the destination routing protocol. Select a type to be either Type-1 or Type2 in the AS-external-LSA when the route-map matches the condition.

Attribute Name: metric-type

Attribute Type: enum (type-1|type-2|internal|external)

Netconf edit-config payload

```

<route-maps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <route-map>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <route-map-name>WORD</route-map-name>
    </config>
    <route-map-name>WORD</route-map-name>
  <set-action>
    <config>
      <metric-type>type-1</metric-type> <!-- operation="delete"-->
    </config>
  </set-action>
</route-map>
</route-maps>

```

Command Syntax

```
set metric-type (type-1|type-2|internal|external)
```

Configure aigp metric

Use this command to set the AIGP metric for BGP protocol routes.

Attribute Name: aigp-metric

Attribute Type: union

Netconf edit-config payload

```
<route-maps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
```

```

<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
  <aigp-metric>igp-metric</aigp-metric> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set aigp-metric (igp-metric|<1-4294967295>)
```

Configure level type

Use this attribute to set the IS-IS level to export a route.

Attribute Name: level-type

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<config>
  <level-type>level-1</level-type> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set level (level-1|level-2|level-1-2)
```

Configure enable as path tag

Use this command to modify an autonomous system path for a route. By specifying the length of the AS-Path, the router influences the best path selection by a neighbor

Attribute Name: enable-as-path-tag

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  </set-action>
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set as-path tag
```

Configure atomic aggregate

Use this attribute to set an atomic aggregate attribute. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: atomic-aggregate

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  </set-action>
</config>
</set-action>
</routemap>
</routemaps>
```


Command Syntax

```
set atomic-aggregate
```

Configure delete community value

Use this attribute to delete the matched communities from the community attribute of an inbound or outbound update when applying route-map.

Attribute Name: delete-community-value

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <delete-community-value>RMAP_COMMUNITY_STRING_T</delete-community-value>
    </config>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set comm-list (WORD|<1-99>|<100-500>) delete
```

Configure delete large community value

Use this attribute to delete the matched large-communities from the community attribute of an inbound or outbound update when applying route-map.

Attribute Name: delete-large-community-value

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
```

```

        <delete-large-community-value>RMAP_COMMUNITY_STRING_T</delete-large-
community-value>
    </config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set large-comm-list (WORD|<1-99>|<100-500>) delete
```

Configure bgp originator id

Use this command to set the originator ID attribute. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: bgp-originator-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <bgp-originator-id>A.B.C.D</bgp-originator-id> <!-- operation="delete"-->
    </config>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set originator-id A.B.C.D
```

Configure as path prepend

Use this attributes to modify an autonomous system path for a route. By specifying the length of the AS-Path, the router influences the best path selection by a neighbor. Use this command to prepend an AS path string to routes increasing the AS path length. To use this command, you must first give the match and set commands configure the conditions for redistributing routes from one routing protocol to another: 1. The match command specifies the match criteria under which redistribution is allowed for the current route-map. 2. The set command specifies the set redistribution actions to be performed if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: as-path-prepend

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <as-path-prepend>1</as-path-prepend> <!-- operation="delete"-->
    </config>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set as-path prepend .<1-4294967295>
```

Configure ext community site of origin

Use this attribute to set an extended community attribute as Site-of-origin extended community.

Attribute Name: ext-community-site-of-origin

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <ext-community-site-of-origin>AA:NN_or_IP:nn</ext-community-site-of-origin>
    <!-- operation="delete"-->
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set extcommunity soo .AA:NN_or_IP:nn
```

Configure ext community color

Use this attribute to set an extended community attribute color value

Attribute Name: ext-community-color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <config>
      <ext-community-color>1</ext-community-color> <!-- operation="delete"-->
    </config>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set extcommunity color <1-4294967295>
```

Configure track id

Use this attribute to configure track-id for next hop with oamd

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: ip-nexthop-address

Attribute Type: inet:ipv4-address

Attribute Name: verify-availability

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
```

```

    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        <ip-nexthop-address>A.B.C.D</ip-nexthop-address> <!-- operation="delete"-->
        </verify-availability><!-- operation="delete"-->
        <track-id>1</track-id> <!-- operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ip next-hop A.B.C.D verify-availability track <1-500>
```

Configure ip nexthop address

Use this attribute to set the specified next-hop value.

Attribute Name: ip-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        <ip-nexthop-address>A.B.C.D</ip-nexthop-address> <!-- operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ip next-hop A.B.C.D
```

Configure use peer address

Use this attribute to set the next hop value as BGP peer-address

Attribute Name: use-peer-address

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        </use-peer-address><!-- operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set ip next-hop peer-address
```

Configure ip nexthop self

Use this attribute to set the next hop self

Attribute Name: ip-nexthop-self

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        </ip-nexthop-self><!-- operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>
```

```

</ipv4>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ip next-hop self
```

Configure default nexthop address

Use this attribute to set the default next hop value

Attribute Name: default-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        <default-nexthop-address>A.B.C.D</default-nexthop-address> <!--
operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ip default next-hop A.B.C.D
```

Configure vpnv4 nexthop address

Use this command to set a VPNv4 next-hop address. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: vpnv4-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv4>
      <config>
        <vpnv4-nexthop-address>A.B.C.D</vpnv4-nexthop-address> <!--
operation="delete"-->
      </config>
    </ipv4>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set vpnv4 next-hop A.B.C.D
```

Configure ipv6 nexthop address

Use this attribute to configure track-id for next hop with oamd

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Attribute Name: verify-availability

Attribute Type: empty

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv6>
      <config>

```



```

        <ipv6-nexthop-address>X:X::X:X</ipv6-nexthop-address> <!--
operation="delete"-->
        </verify-availability><!-- operation="delete"-->
        <track-id>1</track-id> <!-- operation="delete"-->
    </config>
</ipv6>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ipv6 next-hop X:X::X:X verify-availability track <1-500>
```

Configure ipv6 ipv6-nexthop-address

Use this attribute to set a next hop-address.

Attribute Name: ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv6>
      <config>
        <ipv6-nexthop-address>X:X::X:X</ipv6-nexthop-address> <!--
operation="delete"-->
      </config>
    </ipv6>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ipv6 next-hop X:X::X:X
```

Configure default ipv6 nexthop address

Use this attribute to set the default ipv6 next hop-address

Attribute Name: default-ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv6>
      <config>
        <default-ipv6-nexthop-address>X:X::X:X</default-ipv6-nexthop-address> <!--
operation="delete"-->
      </config>
    </ipv6>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ipv6 default next-hop X:X::X:X
```

Configure local ipv6 nexthop address

Use this attribute to set Local IPv6 address as next hop-address

Attribute Name: local-ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <ipv6>
      <config>
        <local-ipv6-nexthop-address>X:X::X:X</local-ipv6-nexthop-address> <!--
operation="delete"-->
      </config>
    </ipv6>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set ipv6 next-hop local X:X::X:X
```

Configure aggregator ip address

IP address of aggregator.

Attribute Name: aggregator-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  </set-action>
  <bgp-aggregator-attributes>
    <bgp-aggregator-attribute> <!-- operation="delete"-->
      <aggregator-ip-address>A.B.C.D</aggregator-ip-address>
    <config>
      <aggregator-ip-address>A.B.C.D</aggregator-ip-address>
      <as-number>1</as-number>
    </config>
    <as-number>1</as-number>
  </bgp-aggregator-attribute>
</bgp-aggregator-attributes>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set aggregator as <1-4294967295> A.B.C.D
```

Configure ext community rt

use this attribute to set an Route target extended community

Attribute Name: ext-community-rt

Attribute Type: string

Attribute Range: 1-255

Attribute Name: additive-type

Attribute Type: enum (no-additive|additive)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<extended-community>
<route-targets>
<route-target> <!-- operation="delete"-->
  <ext-community-rt>AA:NN_or_IP:nn</ext-community-rt>
  <config>
    <ext-community-rt>AA:NN_or_IP:nn</ext-community-rt>
    <additive-type>no-additive</additive-type>
  </config>
</route-target>
</route-targets>
</extended-community>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set extcommunity rt .AA:NN_or_IP:nn ((additive)|)
```

Configure cost value

use this attribute to set Extended community cost value

Attribute Name: cost-value

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<extended-community>
<costs>
<cost> <!-- operation="delete"-->

```

```

    <cost-value>0</cost-value>
  <config>
    <cost-value>0</cost-value>
    <community-id>0</community-id>
    <comparison-type>no-comparision</comparison-type>
  </config>
    <community-id>0</community-id>
    <comparison-type>no-comparision</comparison-type>
</cost>
</costs>
</extended-community>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set extcommunity cost (igp|pre-bestpath|) <0-255> <0-4294967295>
```

Configure max suppress time limit

Maximum duration to suppress a stable route in minutes.

Attribute Name: max-suppress-time-limit

Attribute Type: uint8

Default Value: 60

Attribute Range: 1-255

Attribute Name: enable-dampening

Attribute Type: empty

Attribute Name: reachability-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: reuse-time-limit

Attribute Type: uint16

Default Value: 750

Attribute Range: 1-20000

Attribute Name: suppress-time-limit

Attribute Type: uint16

Default Value: 2000

Attribute Range: 1-20000

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>

```

```

    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <rotemap-name>WORD</rotemap-name>
    </config>
    <rotemap-name>WORD</rotemap-name>
<set-action>
<dampening>
<config>
    </enable-dampening><!-- operation="delete"-->
    <reachability-half-life-time>1</reachability-half-life-time> <!--
operation="delete"-->
    <reuse-time-limit>1</reuse-time-limit> <!-- operation="delete"-->
    <suppress-time-limit>1</suppress-time-limit> <!-- operation="delete"-->
    <max-suppress-time-limit>1</max-suppress-time-limit> <!-- operation="delete"-
->
    </config>
</dampening>
</set-action>
</rotemap>
</rotemaps>

```

Command Syntax

```
set dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreachable half life time

Un-reachability half-life time for the penalty in minutes.

Attribute Name: unreachable-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: enable-dampening

Attribute Type: empty

Attribute Name: reachability-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: reuse-time-limit

Attribute Type: uint16

Default Value: 750

Attribute Range: 1-20000

Attribute Name: suppress-time-limit

Attribute Type: uint16

Default Value: 2000

Attribute Range: 1-20000

Attribute Name: max-suppress-time-limit

Attribute Type: uint8

Default Value: 60

Attribute Range: 1-255

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
  <routemap>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
  <set-action>
    <dampening>
      <config>
        </enable-dampening><!-- operation="delete"-->
        <reachability-half-life-time>1</reachability-half-life-time> <!--
operation="delete"-->
        <reuse-time-limit>1</reuse-time-limit> <!-- operation="delete"-->
        <suppress-time-limit>1</suppress-time-limit> <!-- operation="delete"-->
        <max-suppress-time-limit>1</max-suppress-time-limit> <!-- operation="delete"-->
        <unreachability-half-life-time>1</unreachability-half-life-time> <!--
operation="delete"-->
      </config>
    </dampening>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure enable dampening

Use this attribute to enable route dampening and set various parameters. Route dampening minimizes the instability caused by route flapping. A penalty is added for every flap in a flapping route. As soon as the total penalty reaches the suppress limit the advertisement of the route is suppressed. This penalty is decayed according to the configured half time value. Once the penalty is lower than the reuse limit, the route advertisement is unsuppressed. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit. Reachability half-life time for the penalty in minutes. The time for the penalty to decrease to one-half of its current value.

Attribute Name: enable-dampening

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<dampening>
<config>
  </enable-dampening>
</config>
</dampening>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set dampening
```

Configure community with as number

Autonomous system (AS) number and network number entered in the 4-byte new community format. This value is configured with two 2-byte numbers separated by a colon. A number from 1 to 65535 can be entered as each 2-byte number. A single community can be entered or multiple communities can be entered, each separated by a space.

Attribute Name: community-with-as-number

Attribute Type: string

Attribute Name: additive-set

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<communities>
<config>
  </additive-set><!-- operation="delete"-->
  <community-with-as-number>AA:NN</community-with-as-number> <!--
operation="delete"-->
</config>
```



```

</communities>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set community-additive .AA:NN
```

Configure large community number set

use this attribute to set a large community

Attribute Name: large-community-number-set

Attribute Type: string

Attribute Range: 1-255

Attribute Name: additive-type

Attribute Type: enum (no-additive|additive)

Netconf edit-config payload

```

<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<set-action>
<large-communities>
<large-community> <!-- operation="delete"-->
  <large-community-number-set>AAaa:NNnn:ZZzz</large-community-number-set>
  <config>
    <large-community-number-set>XXX:YYYY:ZZZ</large-community-number-set>
    <additive-type>no-additive</additive-type>
  </config>
</large-community>
</large-communities>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set large-community .AAaa:NNnn:ZZzz ((additive)|)
```

IPI-RIP

Configure options

This attribute enables debugging for RIP

Attribute Name: options

Attribute Type: bits (all|events|packet send|packet rcv|packet|packet detail|nsm|rib|bfd)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <debug>
  <config>
    <options>all</options> <!-- operation="delete"-->
  </config>
</debug>
</rip>
```

Command Syntax

```
debug rip (all|events|packet send|packet rcv|packet|packet detail|nsm|rib|bfd)
```

Configure split horizon

Use this attribute to controls RIP split-horizon processing on the specified interface.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <split-horizon>true</split-horizon> <!-- operation="delete"-->
  </interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip split-horizon
```

Configure name

Use this attribute to controls RIP split-horizon processing on the specified interface.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <split-horizon>true</split-horizon> <!-- operation="delete"-->
    </interface>
  </interfaces>
</rip>
```

Command Syntax

```
no ip rip split-horizon
```

Configure disable receive packet

Use this attribute to configure the interface to enable/disable the reception of RIP packets

Attribute Name: disable-receive-packet

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </disable-receive-packet><!-- operation="delete"-->
    </interface>
  </interfaces>
</rip>
```

Command Syntax

```
no ip rip receive-packet
```

Configure disable send packet

Use this attribute to enable/disable sending RIP packets through current interface

Attribute Name: disable-send-packet

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </disable-send-packet><!-- operation="delete"-->
    </interface>
  </interfaces>
</rip>
```

Command Syntax

```
no ip rip send-packet
```

Configure receive version

Use this attribute to receive specified version of RIP packets on an interface

Attribute Name: receive-version

Attribute Type: enum (1|2|1 2|1-compatible)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <receive-version>1</receive-version> <!-- operation="delete"-->
    </interface>
  </interfaces>
</rip>
```

Command Syntax

```
ip rip receive version (1|2|1 2)
```

Configure send version

Use this attribute to set the version of RIP packets which can be sent from an interface

Attribute Name: send-version

Attribute Type: enum (1|2|1 2|1-compatible)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
```

```
<name>WORD</name>
<config>
  <name>WORD</name>
</config>
<send-version>1</send-version> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip send version (1|2|1 2|1-compatible)
```

Configure auth mode

Use this attribute to set the type of authentication mode used for RIP packets

Attribute Name: auth-mode

Attribute Type: enum (text|md5)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <auth-mode>text</auth-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip authentication mode (text|md5)
```

Configure auth string

Use this attribute to set the authentication string or password used by a key

Attribute Name: auth-string

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <auth-string>text</auth-string> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

```
<auth-string>LINE</auth-string> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip authentication string LINE
```

Configure auth keychain

Use this attribute to enable RIP authentication on an interface and specify the name of the key chain to be used

Attribute Name: auth-keychain

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <auth-keychain>LINE</auth-keychain> <!-- operation="delete"-->
    </interface>
  </interfaces>
</rip>
```

Command Syntax

```
ip rip authentication key-chain LINE
```

Configure rip enabled

Use this attribute enable a RIP routing process

Attribute Name: rip-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <rip-enabled>
    </rip-enabled>
    </config>
  </instance>
</rip>
```

Command Syntax

```
router rip
```

Configure bfd enable

This feature indicates that the RIP implementation on the system supports BFD

Attribute Name: bfd-enable

Attribute Type: empty

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      </bfd-enable><!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
bfd all-interfaces
```

Configure receive buffer size

Use this attribute to set the RIP UDP receive-buffer size.

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 32768

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure passive interfaces

Disables sending of RIP packets on the specified interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
```

```
<instance>
<config>
  <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
passive-interface IFNAME
```

Configure static routes

Use this attribute to set static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
  <static-routes>A.B.C.D/M</static-routes> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
route A.B.C.D/M
```

Configure neighbors

Specifies the RIP neighbors

Attribute Name: neighbors

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
  <neighbors>A.B.C.D</neighbors> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
neighbor A.B.C.D
```

Configure neighbor fall over bfd

Specified the BFD neighbors

Attribute Name: neighbor-fall-over-bfd

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <neighbor-fall-over-bfd>A.B.C.D</neighbor-fall-over-bfd> <!--
operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
neighbor A.B.C.D fall-over bfd
```

Configure enable cisco metric behavior

Use this attribute to set metric updation behavior as Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <enable-cisco-metric-behavior>disable</enable-cisco-metric-behavior> <!--
operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
cisco-metric-behavior (disable|enable)
```

Configure default metric

Set the default metric

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <default-metric>1</default-metric> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
default-metric <1-15>
```

Configure version

Use this attribute to set version of routing protocol

Attribute Name: version

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-2

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <version>1</version> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
version <1-2>
```

Configure distance

Use this attribute to set administrative distance of the RIP for the current RIP instance

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <distance>1</distance> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

```
</instance>
</rip>
```

Command Syntax

```
distance <1-255>
```

Configure network interfaces

Use this attribute to enable routing on an interface

Attribute Name: network-interfaces

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <network-interfaces>IFNAME</network-interfaces> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
network IFNAME
```

Configure network routes

Use this attribute to enable routing on an IP network

Attribute Name: network-routes

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <config>
      <network-routes>A.B.C.D/M</network-routes> <!-- operation="delete"-->
    </config>
  </instance>
</rip>
```

Command Syntax

```
network A.B.C.D/M
```

Configure access list name

Use this attribute to set the access list name

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <distances>
      <distance>
        <source-prefix>A.B.C.D/M</source-prefix>
        <config>
          <source-prefix>A.B.C.D/M</source-prefix>
          <distance>1</distance>
        </config>
        <access-list-name>WORD</access-list-name>
      </distance>
    </distances>
  </instance>
</rip>
```

Command Syntax

```
distance <1-255> A.B.C.D/M (WORD|)
```

Configure route table update interval

Interval at which RIP updates are sent

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <timers>
      <config>
        <route-info-timeout-interval>5</route-info-timeout-interval>
        <garbage-collection-interval>5</garbage-collection-interval>
        <route-table-update-interval>5</route-table-update-interval>
      </config>
    </timers>
  </instance>
</rip>
```

```
</instance>
</rip>
```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure warning threshold percentage

Use this attribute to set the percentage of maximum routes to generate a warning

Attribute Name: warning-threshold-percentage

Attribute Type: uint32

Attribute Range: 1-100

Attribute Name: max-routes

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <maximum-prefix>
      <config>
        <max-routes>1</max-routes> <!-- operation="delete"-->
        <warning-threshold-percentage>1</warning-threshold-percentage> <!--
operation="delete"-->
      </config>
    </maximum-prefix>
  </instance>
</rip>
```

Command Syntax

```
maximum-prefix <1-65535> (<1-100>|)
```

Configure route type

Use this attribute to redistributes only specified route-type routes matching the specified route type into the RIP routing instance

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|isis|bgp)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <redistribute-policies>
      <redistribute-policy> <!-- operation="delete"-->
        <route-type>connected</route-type>
      <config>
        <route-type>connected</route-type>
      </config>
    </redistribute-policies>
  </instance>
</rip>
```

```

    </config>
  </redistribute-policy>
</redistribute-policies>
</instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp)
```

Configure route map

Use this attribute to set the route-map

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <redistribute-policies>
      <redistribute-policy>
        <route-type>connected</route-type>
        <config>
          <route-type>connected</route-type>
          <metric>0</metric> <!-- operation="delete"-->
        </config>
        <route-map>WORD</route-map> <!-- operation="delete"-->
      </redistribute-policy>
    </redistribute-policies>
  </instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp) metric <0-16> route-map WORD
```

Configure metric

Metric used for the redistributed route

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">

```

```

<instance>
<redistribute-policies>
<redistribute-policy>
  <route-type>connected</route-type>
  <config>
    <route-type>connected</route-type>
  </config>
  <metric>0</metric> <!-- operation="delete"-->
</redistribute-policy>
</redistribute-policies>
</instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to set the route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<redistribute-policies>
<redistribute-policy>
  <route-type>connected</route-type>
  <config>
    <route-type>connected</route-type>
  </config>
  <route-map>WORD</route-map> <!-- operation="delete"-->
</redistribute-policy>
</redistribute-policies>
</instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp) route-map WORD
```

Configure originate

Use this attribute to apply conditions of the route policy to the default route

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise

Attribute Type: empty

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <default-information>
      <config>
        </originate><!-- operation="delete"-->
        </always-advertise><!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
      </config>
    </default-information>
  </instance>
</rip>
```

Command Syntax

```
default-information originate (always|) (route-map WORD|)
```

Configure direction

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <offset-lists>
      <offset-list>
        <direction>in</direction>
        <config>
          <direction>in</direction>
          <access-list-name>WORD</access-list-name>
        </config>
        <metric>0</metric>
      </offset-list>
    </offset-lists>
  </instance>
</rip>
```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <distribute-filter-lists>
      <distribute-filter-list>
        <direction>in</direction>
        <config>
          <direction>in</direction>
          <access-list-name>WORD</access-list-name>
        </config>
      </distribute-filter-list>
    </distribute-filter-lists>
  </instance>
</rip>
```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <distribute-prefix-lists>
      <distribute-prefix-list>
        <direction>in</direction>
        <config>
          <direction>in</direction>
          <access-list-name>WORD</access-list-name>
        </config>
      </distribute-prefix-list>
    </distribute-prefix-lists>
  </instance>
</rip>
```

```
</instance>
</rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

Configure offset-list metric

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>IFNAME</name>
        </config>
      <offset-lists>
        <offset-list>
          <direction>in</direction>
          <config>
            <direction>in</direction>
            <access-list-name>WORD</access-list-name>
          </config>
          <metric>0</metric>
        </offset-list>
      </offset-lists>
    </interface>
  </interfaces>
</instance>
</rip>
```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>IFNAME</name>
        </config>
        <distributed-filter-lists>
          <distributed-filter-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
              <access-list-name>WORD</access-list-name>
            </config>
          </distributed-filter-list>
        </distributed-filter-lists>
      </interface>
    </interfaces>
  </instance>
</rip>
```

Command Syntax

```
distributed-list WORD (in|out) IFNAME
```

Configure distributed-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>IFNAME</name>
        </config>
        <distributed-prefix-lists>
          <distributed-prefix-list>
```

```
<direction>in</direction>
<config>
  <direction>in</direction>
  <access-list-name>WORD</access-list-name>
</config>
</distribute-prefix-list>
</distribute-prefix-lists>
</interface>
</interfaces>
</instance>
</rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

clear ip rip route (connected|static|ospf|isis|bgp|rip|all)

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|isis|bgp|rip|all)

Netconf RPC payload

```
<rip-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <route-type>connected</route-type>
</rip-clear-route>
```

Command Syntax

```
clear ip rip route (connected|static|ospf|isis|bgp|rip|all)
```

clear ip rip route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<rip-clear-route-prefix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <prefix-address>A.B.C.D/M</prefix-address>
</rip-clear-route-prefix>
```

Command Syntax

```
clear ip rip route A.B.C.D/M
```

clear ip rip statistics (IFNAME|)

Attribute Name: name

Attribute Type: string

Default Value: NULL

Netconf RPC payload

```
<rip-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <name>IFNAME</name>
</rip-clear-statistics>
```

Command Syntax

```
clear ip rip statistics (IFNAME|)
```

snmp restart rip**Netconf RPC payload**

```
<rip-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip"/>
```

Command Syntax

```
snmp restart rip
```

debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Netconf RPC payload

```
<rip-terminal-debugging-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <terminal-debug-options>all</terminal-debug-options>
</rip-terminal-debugging-on>
```

Command Syntax

```
debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)
```

no debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Netconf RPC payload

```
rip">
  <rip-terminal-debugging-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
  <terminal-debug-options>all</terminal-debug-options>
  </rip-terminal-debugging-off>
```

Command Syntax

```
no debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)
```

IPI-RIP-VRF

Configure vrf name

VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf> <!-- operation="delete"-->
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </instance>
</rip>
```

Command Syntax

```
address-family ipv4 vrf NAME
```

Configure enable cisco metric behavior

Use this attribute to set metric updation behavior as Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <enable-cisco-metric-behavior>disable</enable-cisco-metric-behavior> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</rip>
```

Command Syntax

```
cisco-metric-behavior (disable|enable)
```

Configure default metric

Set the default metric

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <default-metric>1</default-metric> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</rip>
```

Command Syntax

```
default-metric <1-15>
```

Configure version

Use this attribute to set version of routing protocol

Attribute Name: version

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-2

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </instance>
</rip>
```

```

        <version>1</version> <!-- operation="delete"-->
    </vrf>
</vrfs>
</instance>
</rip>

```

Command Syntax

```
version <1-2>
```

Configure distance

Use this attribute to set administrative distance of the RIP for the current RIP instance

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distance>1</distance> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
distance <1-255>
```

Configure network interfaces

Use this attribute to enable routing on an interface

Attribute Name: network-interfaces

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>

```



```

        <config>
            <vrf-name>WORD</vrf-name>
        </config>
        <network-interfaces>IFNAME</network-interfaces> <!-- operation="delete"-->
    >
        </vrf>
    </vrfs>
</instance>
</rip>

```

Command Syntax

```
network IFNAME
```

Configure network routes

Use this attribute to enable routing on an IP network

Attribute Name: network-routes

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <network-routes>A.B.C.D/M</network-routes> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
network A.B.C.D/M
```

Configure access list name

Use this attribute to set the access list name

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distances>
          <distance>
            <source-prefix>A.B.C.D/M</source-prefix>
            <config>
              <source-prefix>A.B.C.D/M</source-prefix>
              <distance>1</distance>
            </config>
            <access-list-name>WORD</access-list-name>
          </distance>
        </distances>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
distance <1-255> A.B.C.D/M (WORD|)
```

Configure route type

Use this attribute to redistributes only specified route-type routes matching the specified route type into the RIP routing instance

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|bgp)

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy> <!-- operation="delete"-->
            <route-type>connected</route-type>
            <config>
              <route-type>connected</route-type>
            </config>
          </redistribute-policy>
        </redistribute-policies>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

```

        </redistribute-policy>
    </redistribute-policies>
</vrf>
</vrfs>
</instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|bgp)
```

Configure route map

Use this attribute to set the name of the route-map

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy>
            <route-type>connected</route-type>
            <config>
              <route-type>connected</route-type>
              <metric>0</metric> <!-- operation="delete"-->
            </config>
            <route-map>WORD</route-map> <!-- operation="delete"-->
          </redistribute-policy>
        </redistribute-policies>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to set the metric used for the redistributed route

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy>
            <route-type>connected</route-type>
            <config>
              <route-type>connected</route-type>
            </config>
            <metric>0</metric> <!-- operation="delete"-->
          </redistribute-policy>
        </redistribute-policies>
      </vrf>
    </vrfs>
  </instance>
</rip>
```

Command Syntax

```
redistribute (connected|static|ospf|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to set the name of the route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </instance>
</rip>
```

```

    <redistribute-policies>
    <redistribute-policy>
      <route-type>connected</route-type>
      <config>
        <route-type>connected</route-type>
      </config>
      <route-map>WORD</route-map> <!-- operation="delete"-->
    </redistribute-policy>
  </redistribute-policies>
</vrf>
</vrfs>
</instance>
</rip>

```

Command Syntax

```
redistribute (connected|static|ospf|bgp) route-map WORD
```

Configure originate

Use this attribute to apply conditions of the route policy to the default route

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise

Attribute Type: empty

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <default-information>
          <config>
            </originate><!-- operation="delete"-->
            </always-advertise><!-- operation="delete"-->
            <route-map>WORD</route-map> <!-- operation="delete"-->
          </config>
        </default-information>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
default-information originate (always|) (route-map WORD|)
```

Configure direction

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <offset-lists>
          <offset-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
              <access-list-name>WORD</access-list-name>
            </config>
            <metric>0</metric>
          </offset-list>
        </offset-lists>
      </vrf>
    </vrfs>
  </instance>
</rip>
```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distribute-filter-lists>
          <distribute-filter-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
              <access-list-name>WORD</access-list-name>
            </config>
          </distribute-filter-list>
        </distribute-filter-lists>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distribute-prefix-lists>
          <distribute-prefix-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
            </config>
          </distribute-prefix-list>
        </distribute-prefix-lists>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

```

        <access-list-name>WORD</access-list-name>
    </config>
</distribute-prefix-list>
</distribute-prefix-lists>
</vrf>
</vrfs>
</instance>
</rip>

```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

Configure name

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>IFNAME</name>
              </config>
              <offset-lists>
                <offset-list>
                  <direction>in</direction>
                  <config>
                    <direction>in</direction>
                    <access-list-name>WORD</access-list-name>
                  </config>
                  <metric>0</metric>
                </offset-list>
              </offset-lists>
            </interface>
          </interfaces>

```



```

</vrf>
</vrfs>
</instance>
</rip>

```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>IFNAME</name>
              <direction>in</direction>
              <access-list-name>WORD</access-list-name>
            </config>
          </interface>
        </interfaces>
      </vrf>
    </vrfs>
  </instance>
</rip>

```

Command Syntax

```
distribute-list WORD (in|out) IFNAME
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>IFNAME</name>
              </config>
              <distribute-prefix-lists>
                <distribute-prefix-list>
                  <direction>in</direction>
                  <config>
                    <direction>in</direction>
                    <access-list-name>WORD</access-list-name>
                  </config>
                </distribute-prefix-list>
              </distribute-prefix-lists>
            </interface>
          </interfaces>
        </vrf>
      </vrfs>
    </instance>
  </rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

clear ip rip route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<ipi-rip-vrf_rip-vrf-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rip">
  <vrf-name>NAME</vrf-name>
  <prefix>A.B.C.D/M</prefix>
</ipi-rip-vrf_rip-vrf-clear-route>
```

Command Syntax

```
clear ip rip route vrf NAME A.B.C.D/M
```

clear ip rip route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rip-vrf_rip-vrf-clear-route-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rip">
  <vrf-name>NAME</vrf-name>
</ipi-rip-vrf_rip-vrf-clear-route-all>
```

Command Syntax

```
clear ip rip route vrf NAME *
```

IPI-PBR

Configure enabled

Use this attribute to enable pbr support

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
  <config>
    </enabled><!-- operation="delete"-->
  </config>
</pbr>
```

Command Syntax

```
feature pbr
```

Configure route map name

Use this attribute to set ip policy for route-map.

Attribute Name: route-map-name

Attribute Type: string

Netconf edit-config payload

```
<pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
    </interface>
  </interfaces>
</pbr>
```

Command Syntax

```
ip policy route-map WORD
```

Configure route map v6 name

Use this attribute to set ipv6 policy for route-map.

Attribute Name: route-map-v6-name

Attribute Type: string

Netconf edit-config payload

```
<pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <route-map-v6-name>WORD</route-map-v6-name> <!-- operation="delete"-->
    </interface>
  </interfaces>
</pbr>
```

Command Syntax

```
ipv6 policy route-map WORD
```

clear route-map WORD pbr-statistics

Attribute Name: route-map-name

Attribute Type: string

Netconf RPC payload

```
<clear-route-map-pbr-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
pbr">  
  <route-map-name>WORD</route-map-name>  
</clear-route-map-pbr-statistics>
```

Command Syntax

```
clear route-map WORD pbr-statistics
```

IPI-SNMP

Configure enable link down trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm">  
  <server-traps>  
    <config>  
      <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->  
      <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->  
    </config>  
  </server-traps>  
</snmp>
```

Command Syntax

```
snmp-server enable traps link
```

Configure enable link up trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
      <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
no snmp-server enable traps link
```

Configure include interface name

Use this attribute to include ifname with SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: include-interface-name

Attribute Type: uint8

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      </include-interface-name><!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link include-interface-name
```

Configure server-traps enable-link-down-trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link linkDown
```

Configure server-traps enable-link-down-trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
no snmp-server enable traps link linkDown
```

Configure server-traps enable-link-up-trap

Use this attribute to enable or disable SNMP linkup traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link linkUp
```

Configure server-traps enable-link-up-trap

Use this attribute to enable or disable SNMP linkup traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
no snmp-server enable traps link linkUp
```

Configure enable traps

Use this attribute to enable or disable SNMP traps and inform requests.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-traps

Attribute Type: bits (snmp authentication|mpls|pw|pwdelete|rsvp|ospf|bgp|isis|vrrp|vxlan|ospf6|mplsl3vpn|rib|pim|syslog|twamp|alarms)

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <config>
      <enable-traps>snmp authentication</enable-traps> <!-- operation="delete"-->
    </config>
  </server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps (snmp
  authentication|mpls|pw|pwdelete|rsvp|ospf|bgp|isis|vrrp|vxlan|ospf6|mplsl3vpn|ri
  b|pim|syslog|twamp|alarms)
```

Configure enable trap cache

Enables trap caching

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-trap-cache

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <trap-cache>
```



```
<config>
  </enable-trap-cache>
</config>
</trap-cache>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server trap-cache
```

Configure timeout

Sets timeout before sending traps

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: timeout

Attribute Type: int8

Default Value: 10

Attribute Range: 1-20

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <trap-cache>
      <config>
        <timeout>1</timeout> <!-- operation="delete"-->
      </config>
    </trap-cache>
  </server-traps>
</snmp>
```

Command Syntax

```
timeout <1-20>
```

Configure disable ping

Disables pings to check host reachability

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: disable-ping

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <trap-cache>
      <config>
        </disable-ping><!-- operation="delete"-->
      </config>
    </trap-cache>
  </server-traps>
</snmp>
```

```

</config>
</trap-cache>
</server-traps>
</snmp>

```

Command Syntax

```
disable-ping
```

Configure max count

Sets the maximum number of traps that can be cached

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: max-count

Attribute Type: int16

Default Value: 200

Attribute Range: 1-500

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <server-traps>
    <trap-cache>
      <config>
        <max-count>1</max-count> <!-- operation="delete"-->
      </config>
    </trap-cache>
  </server-traps>
</snmp>

```

Command Syntax

```
max-count <1-500>
```

debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Attribute Name: debug

Attribute Type: bits (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Netconf RPC payload

```

<snmp-agentx-enable-terminal-debugging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <debug>snmp send</debug>
</snmp-agentx-enable-terminal-debugging>

```

Command Syntax

```
debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)
```

no debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Attribute Name: debug

Attribute Type: bits (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Netconf RPC payload

```
<snmp-agentx-disable-terminal-debugging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <debug>snmp send</debug>
</snmp-agentx-disable-terminal-debugging>
```

Command Syntax

```
no debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp
detail|snmp|snmp all)
```

IPI-SNMP-SERVER

Configure vrf name

VRF name associated with this instance.

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
        </enabled>
      </config>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server enable snmp (vrf (NAME|management)|)
```

Configure system contact

Use this attribute to set the system contact information for the device (sysContact object)

Attribute Name: system-contact

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<server>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <global>
    <config>
      <system-contact>LINE</system-contact> <!-- operation="delete"-->
    </config>
  </global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server contact (vrf (NAME|management) |) LINE
```

Configure system location

Use this attribute to set the physical location information of the device (sysLocation object)

Attribute Name: system-location

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<server>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <global>
    <config>
      <system-location>LINE</system-location> <!-- operation="delete"-->
    </config>
  </global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server location (vrf (NAME|management) |) LINE
```

Configure tcp session enabled

Use this attribute to start the SNMP agent daemon over TCP

Attribute Name: tcp-session-enabled

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<server>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <global>
    <config>
      </tcp-session-enabled><!-- operation="delete"-->
    </config>
  </global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server tcp-session (vrf (NAME|management) |)
```

Configure disable default instance

Use this attribute to prevent default snmp instance from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<default-instance>
<config>
  </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</servers>
</snmp>
```

Command Syntax

```
snmp-server disable-default
```

Configure ent ipi iftable

Use this attribute to enable separate logical/physical interface tables

Attribute Name: ent-ipi-iftable

Attribute Type: empty

Netconf edit-config payload

```
<custom xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <config>
    </ent-ipi-iftable><!-- operation="delete"-->
  </config>
</custom>
```

Command Syntax

```
snmp ent-ipi-iftable
```

IPI-SNMP-SERVER-EXTENDED

Configure include directive

Use this attribute to create and include extension directory for snmp-dir

Attribute Name: include-directive

Attribute Type: empty

Netconf edit-config payload

```
<snmp-dir xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
  <config>
    </include-directive><!-- operation="delete"-->
  </config>
</snmp-dir>
```

Command Syntax

```
snmp-server include-directive
```

Configure enable

Use this attribute to enable/disable SNMP server debugging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <debug xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</servers>
</snmp>

```

Command Syntax

```
debug snmp-server
```

Configure filter type

Use this attribute to update oid tree filter type for a view entry.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: filter-type

Attribute Type: enum (included|excluded)

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <snmp-views xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <snmp-view>
        <view-name>VIEW-NAME</view-name>
        <config>
          <view-name>VIEW-NAME</view-name>
        </config>
        <oid-trees>
          <oid-tree>
            <oid>OID-TREE</oid>
            <config>
              <oid>OID-TREE</oid>
            </config>
            <filter-type>included</filter-type> <!-- operation="delete"-->
          </oid-tree>
        </oid-trees>
      </snmp-view>
    </snmp-views>
  </server>
</servers>

```

```
</snmp>
```

Command Syntax

```
snmp-server view VIEW-NAME OID-TREE (included|excluded) (vrf (NAME|management) |)
```

Configure engine id

Use this attribute to configure SNMPv3 engine ID.

This command is supported when following feature are enabled snmp version v3

Attribute Name: engine-id

Attribute Type: string

Attribute Range: 1-24

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <engine-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <config>
      <engine-id>ENGINE_ID_STR</engine-id> <!-- operation="delete"-->
    </config>
  </engine-id>
</snmp>
```

Command Syntax

```
snmp-server engineID ENGINE_ID_STR
```

Configure smux port enable

Use this attribute to enable smux-port.

Attribute Name: smux-port-enable

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <smux-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <config>
          </smux-port-enable><!-- operation="delete"-->
        </config>
      </smux-port>
    </server>
  </servers>
```

```
</snmp>
```

Command Syntax

```
snmp-server smux-port-enable (vrf (NAME|management) |)
```

Configure host name

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
          <host-name>A.B.C.D</host-name>
          <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
            <community>WORD</community>
            <udp-port>1</udp-port>
          </config>
          <host-vrf-name>NAME</host-vrf-name>
        </host>
      </hosts>
    </server>
  </servers>
</snmp>
```

```

</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (traps) version (1|2c) WORD (udp-port
<1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)

```

Configure notification type

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
          <host-name>A.B.C.D</host-name>
          <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
          </config>
        </host>
      </hosts>
    </server>
  </servers>
</snmp>

```

```

        <snmpv3-auth-type>noauth</snmpv3-auth-type>
        <snmpv3-user>WORD</snmpv3-user>
        <udp-port>1</udp-port>
    </config>
    <host-vrf-name>NAME</host-vrf-name>
</host>
</hosts>
</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (traps) version (3) (noauth|auth|priv)
WORD (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)

```

Configure snmp version

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
          <host-name>A.B.C.D</host-name>
          <config>

```

```

        <host-name>A.B.C.D</host-name>
        <host-vrf-name>NAME</host-vrf-name>
        <notification-type>traps</notification-type>
        <snmp-version>1</snmp-version>
        <community>WORD</community>
        <udp-port>1</udp-port>
    </config>
    <host-vrf-name>NAME</host-vrf-name>
</host>
</hosts>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (informs) version (2c) WORD (udp-port
<1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure snmpv3 auth type

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
    </server>
  </servers>
</snmp>

```

```

    <vrf-name>NAME</vrf-name>
  </config>
  <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <host>
      <host-name>A.B.C.D</host-name>
      <config>
        <host-name>A.B.C.D</host-name>
        <host-vrf-name>NAME</host-vrf-name>
        <notification-type>traps</notification-type>
        <snmp-version>1</snmp-version>
        <snmpv3-auth-type>noauth</snmpv3-auth-type>
        <snmpv3-user>WORD</snmpv3-user>
        <udp-port>1</udp-port>
      </config>
      <host-vrf-name>NAME</host-vrf-name>
    </host>
  </hosts>
</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (informs) version (3)
(noauth|auth|priv) WORD (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf
(NAME|management)|)

```

Configure community

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>

```

```

    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <host>
        <host-name>A.B.C.D</host-name>
        <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <snmp-version>1</snmp-version>
            <community>WORD</community>
            <udp-port>1</udp-port>
        </config>
        <host-vrf-name>NAME</host-vrf-name>
    </host>
    </hosts>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) version (1|2c) WORD (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure snmpv3 user

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
```

```

<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <host>
        <host-name>A.B.C.D</host-name>
        <config>
          <host-name>A.B.C.D</host-name>
          <host-vrf-name>NAME</host-vrf-name>
          <snmp-version>1</snmp-version>
          <snmpv3-auth-type>noauth</snmpv3-auth-type>
          <snmpv3-user>WORD</snmpv3-user>
          <udp-port>1</udp-port>
        </config>
        <host-vrf-name>NAME</host-vrf-name>
      </host>
    </hosts>
  </server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) version (3) (noauth|auth|priv) WORD
(udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)

```

Configure host vrf name

SNMP host VRF name associated with this host.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-vrf-name

Attribute Type: string

Attribute Name: host-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>

```

```

</config>
<hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
<host>
  <host-name>A.B.C.D</host-name>
  <config>
    <host-name>A.B.C.D</host-name>
    <host-vrf-name>NAME</host-vrf-name>
    <host-user>WORD</host-user> <!-- operation="delete"-->
    <udp-port>1</udp-port> <!-- operation="delete"-->
  </config>
  <host-vrf-name>NAME</host-vrf-name>
</host>
</hosts>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) WORD (udp-port <1-65535>|) (vrf
(NAME|management)|) (host-vrf (NAME|management)|)
```

Configure user name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
        <user-name>WORD</user-name>

```



```

    <config>
      <user-name>WORD</user-name>
      <authentication-type>md5</authentication-type>
      <encryption-type>l</encryption-type>
      <authentication-password>AUTH-PASSWORD</authentication-password>
    </config>
  </user>
</users>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server user WORD auth (md5|sha) encrypt AUTH-PASSWORD (vrf (NAME|management) |)
```

Configure authentication type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <user> <!-- operation="delete"-->
          <user-name>WORD</user-name>
          <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
          </config>
        </user>
      </users>
    </server>
  </servers>
</snmp>

```

```

    </user>
  </users>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server user WORD auth (md5|sha) AUTH-PASSWORD (vrf (NAME|management) |)
```

Configure user type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <user> <!-- operation="delete"-->
          <user-name>WORD</user-name>
          <config>
            <user-name>WORD</user-name>
            <user-type>network-operator</user-type>
            <authentication-type>md5</authentication-type>
            <encryption-type>1</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
          </config>
        </user>
      </users>
    </server>
  </servers>

```

```

</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) encrypt
AUTH-PASSWORD (vrf (NAME|management) |)

```

Configure encryption type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
        <user-name>WORD</user-name>
        <config>
          <user-name>WORD</user-name>
          <user-type>network-operator</user-type>
          <authentication-type>md5</authentication-type>
          <encryption-type>0</encryption-type>
          <authentication-password>AUTH-PASSWORD</authentication-password>
        </config>
      </user>
    </users>
  </server>

```

```
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) AUTH-
PASSWORD (vrf (NAME|management) |)
```

Configure authentication password

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
        <user-name>WORD</user-name>
        <config>
          <user-name>WORD</user-name>
          <authentication-type>md5</authentication-type>
          <encryption-type>1</encryption-type>
          <authentication-password>AUTH-PASSWORD</authentication-password>
          <privilege-type>des</privilege-type>
          <privilege-password>PRIV-PASSWORD</privilege-password>
        </config>
      </user>
```

```

    </users>
  </server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server user WORD auth (md5|sha) encrypt AUTH-PASSWORD priv (des|aes) PRIV-
PASSWORD (vrf (NAME|management) |)
```

Configure privilege type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm-server-extended">
        <user> <!-- operation="delete"-->
          <user-name>WORD</user-name>
          <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
            <privilege-type>des</privilege-type>
            <privilege-password>PRIV-PASSWORD</privilege-password>
          </config>
        </user>
      </users>
    </server>
  </servers>
</snmp>

```

```

        </config>
    </user>
</users>
</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server user WORD auth (md5|sha) AUTH-PASSWORD priv (des|aes) PRIV-PASSWORD
(vrf (NAME|management) |)

```

Configure privilege password

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
        <user-name>WORD</user-name>
        <config>
          <user-name>WORD</user-name>

```

```

        <user-type>network-operator</user-type>
        <authentication-type>md5</authentication-type>
        <encryption-type>1</encryption-type>
        <authentication-password>AUTH-PASSWORD</authentication-password>
        <privilege-type>des</privilege-type>
        <privilege-password>PRIV-PASSWORD</privilege-password>
    </config>
</user>
</users>
</server>
</servers>
</snmp>

```

Command Syntax

```

snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) encrypt
AUTH-PASSWORD priv (des|aes) PRIV-PASSWORD (vrf (NAME|management)|)

```

Configure vrf name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </server>
  </servers>
</snmp>

```

```

</config>
<users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
  <user> <!-- operation="delete"-->
    <user-name>WORD</user-name>
    <config>
      <user-name>WORD</user-name>
      <user-type>network-operator</user-type>
      <authentication-type>md5</authentication-type>
      <encryption-type>0</encryption-type>
      <authentication-password>AUTH-PASSWORD</authentication-password>
      <privilege-type>des</privilege-type>
      <privilege-password>PRIV-PASSWORD</privilege-password>
    </config>
  </user>
</users>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) AUTH-
PASSWORD priv (des|aes) PRIV-PASSWORD (vrf (NAME|management)|)
```

Configure user user-name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <user>
          <user-name>WORD</user-name>
          <config>
            <user-name>WORD</user-name>
          </config>
        </user>
      </users>
    </server>
  </servers>
</snmp>

```



```
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (vrf (NAME|management) |)
```

Configure user user-type

Use this attribute to create an SNMP server user of specified type.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-type

Attribute Type: union

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user>
        <user-name>WORD</user-name>
        <config>
          <user-name>WORD</user-name>
          </config>
          <user-type>network-operator</user-type> <!-- operation="delete"-->
        </user>
      </users>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) (vrf
(NAME|management) |)
```

Configure context name

Use this attribute to create an SNMP server context

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
```

```

<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <contexts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <context>
        <context-name>WORD</context-name>
        <config>
          <context-name>WORD</context-name>
        </config>
      </context>
    </contexts>
  </server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server context WORD (vrf (NAME|management) |)
```

Configure acl name

Use this attribute to create an SNMP community string and user-acl.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <community>
          <community-name>WORD</community-name>
          <config>
            <community-name>WORD</community-name>
            <acl-name>WORD</acl-name> <!-- operation="delete"-->
          </config>
        </community>
      </communities>
    </server>
  </servers>

```

```
</snmp>
```

Command Syntax

```
snmp-server community WORD use-acl WORD (vrf (NAME|management) |)
```

Configure community name

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: community-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
  <server>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
    </config>
    <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <community>
        <community-name>WORD</community-name>
        <config>
          <community-name>WORD</community-name>
        </config>
      </community>
    </communities>
  </server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server community WORD (vrf (NAME|management) |)
```

Configure snmp group

Use this attribute to create an SNMP community string with group.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: snmp-group

Attribute Type: enum (network-operator|network-admin)

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
```

```

<server>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
  </config>
  <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <community>
      <community-name>WORD</community-name>
      <config>
        <community-name>WORD</community-name>
      </config>
      <snmp-group>network-operator</snmp-group> <!-- operation="delete"-->
    </community>
  </communities>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server community WORD group (network-operator|network-admin) (vrf
(NAME|management) |)
```

Configure access privileges

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: access-privileges

Attribute Type: enum (ro)

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <community>
          <community-name>WORD</community-name>
          <config>
            <community-name>WORD</community-name>
          </config>
          <access-privileges>ro</access-privileges> <!-- operation="delete"-->
        </community>
      </communities>
    </server>
  </servers>
</snmp>

```

```
</servers>
</snmp>
```

Command Syntax

```
snmp-server community WORD (ro) (vrf (NAME|management) |)
```

Configure access

Use this attribute to set access privileges to this community view.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: access

Attribute Type: enum (ro)

Attribute Name: community-view-name

Attribute Type: string

Attribute Name: version

Attribute Type: enum (v1|v2c)

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <community>
          <community-name>WORD</community-name>
          <config>
            <community-name>WORD</community-name>
            <community-view-name>VIEW-NAME</community-view-name> <!--
operation="delete"-->
            <version>v1</version> <!-- operation="delete"-->
          </config>
          <access>ro</access> <!-- operation="delete"-->
        </community>
      </communities>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server community WORD view VIEW-NAME version (v1|v2c) (ro) (vrf
(NAME|management) |)
```

Configure community context

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: community-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: community-context

Attribute Type: string

Attribute Range: 1-32

Attribute Name: community-user

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <extended" communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
        <community>
          <community-name>WORD</community-name>
          <config>
            <community-name>WORD</community-name>
          </config>
          <community-context-mapping>
            <config>
              <community-context>WORD</community-context>
              <community-user>WORD</community-user>
            </config>
          </community-context-mapping>
        </community>
      </communities>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server community-map WORD context WORD user WORD (vrf (NAME|management)|)
```

Configure group name

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <server-group>
          <group-name>WORD</group-name>
          <config>
            <group-name>WORD</group-name>
            <group-version>1</group-version>
          </config>
        </server-group>
      </server-groups>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server group WORD version (1|2c) (vrf (NAME|management) |)
```

Configure group version

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-group-auth-type

Attribute Type: enum (auth|priv|noauth)

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
      <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <server-group>
          <group-name>WORD</group-name>
          <config>
            <group-name>WORD</group-name>
            <group-version>1</group-version>
            <snmpv3-group-auth-type>auth</snmpv3-group-auth-type>
          </config>
        </server-group>
      </server-groups>
    </server>
  </servers>
</snmp>

```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) (vrf (NAME|management)|)
```

Configure context

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: context

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    </server>
  </servers>
</snmp>

```



```

    </config>
    <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <server-group>
        <group-name>WORD</group-name>
        <config>
          <group-name>WORD</group-name>
          <group-version>1</group-version>
          <context>1</context>
        </config>
      </server-group>
    </server-groups>
  </server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server group WORD version (1|2c) context (all|WORD) (vrf (NAME|management)|)
```

Configure snmpv3 group auth type

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-group-auth-type

Attribute Type: enum (auth|priv|noauth)

Attribute Name: context

Attribute Type: enum (all)

Attribute Range: 1-32

Netconf edit-config payload

```

<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>NAME</vrf-name>
      </config>
    <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <server-group>
        <group-name>WORD</group-name>

```

```

    <config>
      <group-name>WORD</group-name>
      <group-version>1</group-version>
      <snmpv3-group-auth-type>auth</snmpv3-group-auth-type>
      <context>1</context>
    </config>
  </server-group>
</server-groups>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) context <1-32> (all) (vrf
(NAME|management) |)
```

debug snmp-server

Netconf RPC payload

```
<snmp-server-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
snmp-server-extended"/>
```

Command Syntax

```
debug snmp-server
```

no debug snmp-server

Netconf RPC payload

```
<snmp-server-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
snmp-server-extended"/>
```

Command Syntax

```
no debug snmp-server
```

IPI-LDP

Configure multicast hello disable

This attribute enable multicast hello exchange on all interfaces enabled for LDP. This is used for autodiscovery of LDP peers on directly connected networks. This option is enabled by default.

Attribute Name: multicast-hello-disable

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>

```

```
<config>
  </multicast-hello-disable><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
no multicast-hellos
```

Configure ldp instance

This command is used to enter the LDP specific command-line mode in which global attributes for the LDP process can be set. Without this command, the LSR does not perform any LDP operations, such as sending hello packets.

Attribute Name: ldp-instance

Attribute Type: enum (ldp)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
  <config>
    <ldp-instance>ldp</ldp-instance>
  </config>
</global>
</ldp>
```

Command Syntax

```
router (ldp)
```

Configure router identifier

This attribute sets the router-id to the supplied IP address; the router uses this address to generate the LDP-ID

Attribute Name: router-identifier

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
  <config>
    <router-identifier>A.B.C.D</router-identifier> <!-- operation="delete"-->
  </config>
</global>
</ldp>
```

Command Syntax

```
router-id A.B.C.D
```

Configure pseudowire status tlv

This attribute enables the use of the PW Status TLV to signal the pseudowire status

Attribute Name: pseudowire-status-tlv

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </pseudowire-status-tlv><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
pw-status-tlv
```

Configure rlfa ilm optimization

This attribute enables the rlfa ilm optimization

Attribute Name: rlfa-ilm-optimization

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </rlfa-ilm-optimization><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
rlfa-ilm-optimization
```

Configure entropy label capability enable

This attribute enables ELC for the router. An ELC TLV will be inserted in the label mapping message if the router is capable of processing Entropy Label.

Attribute Name: entropy-label-capability-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
```

```
</entropy-label-capability-enable><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
entropy-label-capability
```

Configure advertise label for default route

Advertise the label for default route.

Attribute Name: advertise-label-for-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </advertise-label-for-default-route><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
advertise-label-for-default-route
```

Configure import bgp routes

This attribute is used to import BGP routes into LDP. BGP routes are not imported into LDP by default. Use the no parameter to flush out all BGP routes currently being used by LDP, and to reject any further BGP specific routing updates from ZebOS-XP.

Attribute Name: import-bgp-routes

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </import-bgp-routes><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
import-bgp-routes
```

Configure ldp optimization

This command helps optimize the resetting of an LDP session by enabling the two scalability features for LDP. It Resets the session keepalive timer on receipt of a hello message and Resets the hold timer on receipt of any LDP control message.

Attribute Name: ldp-optimization

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </ldp-optimization><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
ldp-optimization
```

Configure explicit null

This attribute is used to configure the router to send explicit-null labels for directly connected FECs instead of implicit-null labels. Implicit-nulls are the default labels.

Attribute Name: explicit-null

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </explicit-null><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
explicit-null
```

Configure global merge

This attribute is used to override the default merge capability setting of all the interfaces for the current LSR. The merge capability aggregates multiple incoming flows with the same destination address into a single outgoing flow.

Attribute Name: global-merge

Attribute Type: enum (merge-capable|non-merge-capable)

Default Value: merge-capable

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      <global-merge>merge-capable</global-merge> <!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
global-merge-capability (merge-capable|non-merge-capable)
```

Configure propagate release

This attribute is used to propagate the release of labels to downstream routers

Attribute Name: propagate-release

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </propagate-release><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
propagate-release
```

Configure fast reroute

This attribute is used to enable the use by LDP of the LFA next-hop

Attribute Name: fast-reroute

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </fast-reroute><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
fast-reroute
```

Configure prefer tunnel in tunnel

Use this attribute to specify TE-tunnel over LDP tunnel for tunneling

Attribute Name: prefer-tunnel-in-tunnel

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </prefer-tunnel-in-tunnel><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
prefer-tunnel-in-tunnel rsvp
```

Configure ignore mac withdraw bad pdu length

This attribute is used to ignore the bad pdu length error and send a non-fatal notification (non-RFC compliance)

Attribute Name: ignore-mac-withdraw-bad-pdu-length

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <config>
      </ignore-mac-withdraw-bad-pdu-length><!-- operation="delete"-->
    </config>
  </global>
</ldp>
```

Command Syntax

```
ignore-mac-withdraw-bad-pdu-length
```

Configure rlfa tunnels

Use this attribute to specify maximum rlfa tunnels

Attribute Name: rlfa-tunnels

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-500

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
```



```

<global>
<config>
  <rlfa-tunnels>1</rlfa-tunnels> <!-- operation="delete"-->
</config>
</global>
</ldp>

```

Command Syntax

```
max-rlfa-tunnels <1-500>
```

Configure auto targeted session

This attribute is used to dynamically create TLDP session for LDP RLFA.

This command is supported when following feature are enabled LDP FRR feature

Attribute Name: auto-targeted-session

Attribute Type: empty

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<auto-target-session>
<config>
  </auto-targeted-session><!-- operation="delete"-->
</config>
</auto-target-session>
</global>
</ldp>

```

Command Syntax

```
auto-targeted-session
```

Configure control mode

Use this attribute to override the default merge capability setting of all the interfaces for the current LSR. The merge capability aggregates multiple incoming flows with the same destination address into a single outgoing flow. This reduces the label-space shortage by sharing labels for different flows with the same destination, or the same FEC (Forwarding Equivalence Class). An LSR replies to a request packet from an LSR higher in the chain only after it receives a label from an LSR lower in the chain. Independent processing sets the mode to instant replies. In independent control mode, each LSR might advertise label mappings to its neighbors at any time. In independent downstream-on-demand mode, an LSR might answer requests for label mappings immediately, without waiting for a label mapping from the next hop. In independent downstream unsolicited mode, an LSR might advertise a label mapping for an Forwarding Equivalence Class (FEC) to its neighbors whenever it is prepared to label-switch that FEC. In independent mode, an upstream label can be advertised before a downstream label is received. In ordered control mode, an LSR may initiate the transmission of label mapping only for an FEC for which it has a label mapping for the FEC next hop, or for which the LSR is the egress. For each FEC for which the LSR is not the egress and no mapping exists, the LSR must wait until a label from a downstream LSR is received. An LSR may be an egress for some FECs and a non-egress for others. Changes in control mode only affect labels that were sent or received after the change was made.

Attribute Name: control-mode

Attribute Type: enum (independent|ordered)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <label-management>
      <config>
        <control-mode>independent</control-mode> <!-- operation="delete"-->
      </config>
    </label-management>
  </global>
</ldp>
```

Command Syntax

```
control-mode (independent|ordered)
```

Configure retention mode

This attribute is used to set the retention mode to be used for all labels exchanged. When an LSR receives a label binding for a particular FEC (Forwarding Equivalence Class) from another LSR that is not its next hop for that FEC, it might keep track of such bindings or discard them. Use the liberal parameter to retain all labels binding to FEC received from label distribution peers, even if the LSR is not the current next-hop. Use the conservative parameter to maintain only the label bindings for valid next-hops in a LSP.

Attribute Name: retention-mode

Attribute Type: enum (liberal|conservative)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <label-management>
      <config>
        <retention-mode>liberal</retention-mode> <!-- operation="delete"-->
      </config>
    </label-management>
  </global>
</ldp>
```

Command Syntax

```
label-retention-mode (liberal|conservative)
```

Configure advertisement mode

This attribute is used to set the label advertisement mode for all the interfaces for the current LSR. Specifying downstream-on-demand and downstream-unsolicited mode affects which LSR initiates mapping requests and mapping advertisements. This command is a global command used to set the label advertisement mode for all interfaces for the current LSR.

Attribute Name: advertisement-mode

Attribute Type: enum (downstream-unsolicited|downstream-on-demand)

Default Value: downstream-unsolicited

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <label-management>
      <config>
        <advertisement-mode>downstream-unsolicited</advertisement-mode> <!--
operation="delete"-->
      </config>
    </label-management>
  </global>
</ldp>
```

Command Syntax

```
advertisement-mode (downstream-unsolicited|downstream-on-demand)
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <timers>
      <config>
        <hello-interval>1</hello-interval> <!-- operation="delete"-->
      </config>
    </timers>
  </global>
</ldp>
```

Command Syntax

```
hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 15

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <timers>
      <config>
        <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
      </config>
    </timers>
  </global>
</ldp>
```

Command Syntax

```
hold-time <3-65535>
```

Configure keepalive interval

Use this attribute to set the global value for the interval after which keep-alive packets are sent out

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <timers>
      <config>
        <keepalive-interval>1</keepalive-interval> <!-- operation="delete"-->
      </config>
    </timers>
  </global>
</ldp>
```

Command Syntax

```
keepalive-interval <1-21845>
```

Configure keepalive timeout

Use this attribute to set the time period for which an LSR must wait for successive keep-alive messages from LDP peers

Attribute Name: keepalive-timeout

Attribute Type: uint16

Default Value: 30

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <timers>
      <config>
        <keepalive-timeout>3</keepalive-timeout> <!-- operation="delete"-->
      </config>
    </timers>
  </global>
</ldp>
```

Command Syntax

```
keepalive-timeout <3-65535>
```

Configure request retry timeout

Use this attribute to set the interval between retries. Before this time is over, a request is re-sent to a peer. This command changes the interval between request messages that are resent to a peer to account for routing changes.

Attribute Name: request-retry-timeout

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <label-request-policy>
      <config>
        <request-retry-timeout>1</request-retry-timeout> <!-- operation="delete"-->
      </config>
    </label-request-policy>
  </global>
</ldp>
```

Command Syntax

```
request-retry-timeout <1-65535>
```

Configure request retry

Use this attribute to enable the retry of requests once a request for a label has been rejected for a valid reason. This command enables the LSR to send a maximum of five label requests if a label request is rejected by an LDP peer.

Attribute Name: request-retry

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
```

```

<label-request-policy>
<config>
  </request-retry><!-- operation="delete"-->
</config>
</label-request-policy>
</global>
</ldp>

```

Command Syntax

```
request-retry
```

Configure label request policy ipv4

Use this attribute to send LDP Label Request Message for certain IPv4 FEC prefixes.

Attribute Name: label-request-policy-ipv4

Attribute Type: string

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-request-policy>
<config>
  <label-request-policy-ipv4>NAME</label-request-policy-ipv4> <!--
operation="delete"-->
</config>
</label-request-policy>
</global>
</ldp>

```

Command Syntax

```
request-labels-for prefix-list-ipv4 NAME
```

Configure loop detection enable

Use this attribute to enable loop detection on the current LSR. This command detects looping LSPs, and prevent Label Request messages from looping because of non-merge capable LSRs. This loop detection mechanism is useful for networks of non time-to-live (non TTL) decrementing devices that can not allocate resources among traffic flows.

Attribute Name: loop-detection-enable

Attribute Type: empty

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<loop-detection-policy>
<config>
  </loop-detection-enable>
</config>
</loop-detection-policy>

```

```
</global>
</ldp>
```

Command Syntax

```
loop-detection
```

Configure path vector limit

Use this attribute to set the loop detection vec (vector) count, which determines the maximum supported path vectors. This command sets the maximum supported path vectors for loop detection, which specifies the permitted path vector length. An LSR that detects a path vector has reached the maximum length behaves as if the containing message has traversed a loop. This command ensures that a loop is detected while establishing a label switched path before any data is passed over that LSP.

Attribute Name: path-vector-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <loop-detection-policy>
      <config>
        <path-vector-limit>1</path-vector-limit> <!-- operation="delete"-->
      </config>
    </loop-detection-policy>
  </global>
</ldp>
```

Command Syntax

```
loop-detection-path-vec-count <1-255>
```

Configure hop count limit

Use this attribute to set the loop detection hop count, which determines the maximum hop-count value. This command sets the maximum hop count value, which specifies the permitted maximum permitted hop-count. An LSR that detects a maximum hop count behaves as if the containing message has traversed a loop. The use of this command ensures that a loop is detected while establishing a label switched path before any data is passed via LSP

Attribute Name: hop-count-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <loop-detection-policy>
```

```
<config>
  <hop-count-limit>1</hop-count-limit> <!-- operation="delete"-->
</config>
</loop-detection-policy>
</global>
</ldp>
```

Command Syntax

```
loop-detection-hop-count <1-255>
```

Configure session protection enable

This attribute is used to activate adjacency session protection.

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<session-protection>
<config>
  </session-protection-enable>
</config>
</session-protection>
</global>
</ldp>
```

Command Syntax

```
session-protection
```

Configure duration

Set adjacency session protection duration. Protection is infinite, it is not configured

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: duration

Attribute Type: union

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<session-protection>
<config>
  </session-protection-enable><!-- operation="delete"-->
</config>
</session-protection>
</global>
</ldp>
```



```

    <duration>infinite</duration> <!-- operation="delete"-->
</config>
</session-protection>
</global>
</ldp>

```

Command Syntax

```
session-protection duration (infinite|<5-86400>)
```

Configure session protection prefix list name

This attribute is used to set adjacency prefixes for session protection.

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: session-protection-prefix-list-name

Attribute Type: union

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<session-protection>
<config>
    </session-protection-enable><!-- operation="delete"-->
    <session-protection-prefix-list-name>none</session-protection-prefix-list-name>
<!-- operation="delete"-->
</config>
</session-protection>
</global>
</ldp>

```

Command Syntax

```
session-protection for (none|WORD)
```

Configure session-protection duration

Set adjacency session protection duration. Protection is infinite, it is not configured

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: duration

Attribute Type: enum (infinite)

Attribute Name: session-protection-enable

Attribute Type: empty

Attribute Name: session-protection-prefix-list-name

Attribute Type: enum (none)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <global>
    <session-protection>
      <config>
        </session-protection-enable><!-- operation="delete"-->
        <session-protection-prefix-list-name>none</session-protection-prefix-list-name>
      <!-- operation="delete"-->
        <duration>infinite</duration> <!-- operation="delete"-->
      </config>
    </session-protection>
  </global>
</ldp>
```

Command Syntax

```
session-protection for (none) duration (infinite)
```

Configure ldp

Use this attribute to enable the debugging of all LDP events.

Attribute Name: ldp

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <debug>
    <config>
      <ldp>events</ldp> <!-- operation="delete"-->
    </config>
  </debug>
</ldp>
```

Command Syntax

```
debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc
  dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet
  initialization|packet keepalive|packet address|packet label|packet|all)
```

Configure dev

Use this attribute to enable dev related debugging for LDP

Attribute Name: dev

Attribute Type: bits (dev)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <debug>
```

```

<config>
  <dev>dev</dev> <!-- operation="delete"-->
</config>
</debug>
</ldp>

```

Command Syntax

```
debug ldp (dev)
```

Configure enable

Use this attribute with the enable option to enable Graceful Restart capability on a router. This is a global command. LDP decides whether or not to encode FT Session TLV in its initialization message for each session depending on this capability, but the restart capability of each session also depends on support for graceful restart at the peer router

This command is supported when following feature are enabled restart feature

Attribute Name: enable

Attribute Type: enum (full|helper-only)

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <graceful-restart>
    <config>
      <enable>full</enable>
    </config>
  </graceful-restart>
</ldp>

```

Command Syntax

```
graceful-restart (full|helper-only)
```

Configure neighbor liveness time

Use this attribute to set the Neighbor-Liveness timer. The amount of time the LSR keeps its stale label-FEC (Forwarding Equivalence Class) bindings is set to the lesser of the Fault Tolerant (FT) Reconnect timeout and Neighbor-Liveness timer. This command sets the Neighbor-Liveness timer

This command is supported when following feature are enabled restart feature

Attribute Name: neighbor-liveness-time

Attribute Type: uint16

Default Value: 120

Attribute Range: 5-300

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <graceful-restart>
    <config>
      <neighbor-liveness-time>5</neighbor-liveness-time> <!-- operation="delete"-->
    </config>
  </graceful-restart>
</ldp>

```

```
</graceful-restart>
</ldp>
```

Command Syntax

```
graceful-restart timers neighbor-liveness <5-300>
```

Configure max recovery time

Use this attribute to set the maximum recovery time. If the LSR determines that the neighbor was able to preserve its MPLS forwarding state, the LSR should keep the stale label-FEC (Forwarding Equivalence Class) bindings for as long as the lesser of: the recovery time advertised by the neighbor and a local maximum recovery time. This command sets the maximum recovery time

This command is supported when following feature are enabled restart feature

Attribute Name: max-recovery-time

Attribute Type: uint16

Default Value: 120

Attribute Range: 15-600

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <graceful-restart>
    <config>
      <max-recovery-time>15</max-recovery-time> <!-- operation="delete"-->
    </config>
  </graceful-restart>
</ldp>
```

Command Syntax

```
graceful-restart timers max-recovery <15-600>
```

Configure inter area acl name

Use this attribute to enable creation of inter-area LSPs.

This command is supported when following feature are enabled INTER AREA feature

Attribute Name: inter-area-acl-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <inter-area>
    <inter-area-enable>WORD</inter-area-enable>
    <config>
      <inter-area-enable>WORD</inter-area-enable>
      <inter-area-acl-name>WORD</inter-area-acl-name>
    </config>
    <inter-area-acl-name>WORD</inter-area-acl-name>
  </inter-area>
```

```
</ldp>
```

Command Syntax

```
inter-area-lsp (PREFIX_ACL|) (config-only|)
```

Configure transport address ipv4

Use this attribute to configure the IPv4 transport address for a label space. The transport address is the address used for the TCP session over which LDP is running. Use this attribute to manually configure the transport address. Transport addresses may either be bound to a loopback interface, or to a physical interface that is bound to the label space in question. A transport address can also be manually configured using the CLI with the loopback address as the transport address.

Attribute Name: transport-address-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <transport-addresses>
    <transport-address>
      <label-space-identifier>0</label-space-identifier>
      <config>
        <label-space-identifier>0</label-space-identifier>
      </config>
      <transport-address-ipv4>A.B.C.D</transport-address-ipv4> <!--
operation="delete"-->
    </transport-address>
  </transport-addresses>
</ldp>
```

Command Syntax

```
transport-address ipv4 A.B.C.D ((0)|)
```

Configure peer address

Use this attribute to configure neighbors of LDP for authentication.

This command is supported when following feature are enabled TCP MD5SIG encrypt password enabled

Attribute Name: peer-address

Attribute Type: union

Attribute Name: password-type

Attribute Type: enum (plain-text|encrypt)

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <peer-authentication>
```

```

<peer-authentication-lists>
<peer-authentication-list> <!-- operation="delete"-->
  <peer-address>all</peer-address>
  <config>
    <peer-address>all</peer-address>
    <password-type>plain-text</password-type>
    <password>WORD</password>
  </config>
</peer-authentication-list>
</peer-authentication-lists>
</peer-authentication>
</ldp>

```

Command Syntax

```
neighbor (all|auto-targeted|A.B.C.D) auth md5 password (plain-text|encrypt) WORD
```

Configure authentication-exclusions peer-address

Use this attribute to exclude neighbors of LDP from authentication.

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<authentication-exclusions>
<config>
  <peer-address>A.B.C.D</peer-address> <!-- operation="delete"-->
</config>
</authentication-exclusions>
</peer-authentication>
</ldp>

```

Command Syntax

```
neighbor A.B.C.D auth md5 password exclude
```

Configure group name

LDP Session group name.

Attribute Name: group-name

Attribute Type: string

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<authentication-groups>
<authentication-group> <!-- operation="delete"-->
  <group-name>NAME</group-name>

```

```
<config>
  <group-name>WORD</group-name>
</config>
</authentication-group>
</authentication-groups>
</peer-authentication>
</ldp>
```

Command Syntax

```
session-group name NAME
```

Configure prefix list

Peer authentication group prefix list.

Attribute Name: prefix-list

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <peer-authentication>
    <authentication-groups>
      <authentication-group>
        <group-name>NAME</group-name>
        <config>
          <group-name>WORD</group-name>
        </config>
        <prefix-list>NAME</prefix-list> <!-- operation="delete"-->
      </authentication-group>
    </authentication-groups>
  </peer-authentication>
</ldp>
```

Command Syntax

```
neighbor prefix-list NAME
```

Configure auth

Use this attribute to configure session-group authentication.

Attribute Name: auth

Attribute Type: enum (auth)

Attribute Name: password-type

Attribute Type: enum (plain-text|encrypt)

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <peer-authentication>
    <authentication-groups>
      <authentication-group>
        <group-name>NAME</group-name>
        <config>
          <group-name>WORD</group-name>
        </config>
      </authentication-group>
    </authentication-groups>
    <authentication-group-passwords>
      <authentication-group-password> <!-- operation="delete"-->
        <auth>auth</auth>
        <config>
          <auth>auth</auth>
          <password-type>plain-text</password-type>
          <password>WORD</password>
        </config>
      </authentication-group-password>
    </authentication-group-passwords>
  </peer-authentication>
</ldp>

```

Command Syntax

```
(auth) md5 password (plain-text|encrypt) WORD
```

Configure prefix access control list name

Use this attribute to prevent the distribution of any locally assigned labels

Attribute Name: prefix-access-control-list-name

Attribute Type: string

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <label-mapping-access-lists>
    <label-mapping-access-list>
      <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
      <config>
        <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
        <peer-access-control-list-name>WORD</peer-access-control-list-name>
      </config>
      <peer-access-control-list-name>WORD</peer-access-control-list-name>
    </label-mapping-access-list>
  </label-mapping-access-lists>
</ldp>

```

Command Syntax

```
advertise-labels for any to none
```

Configure peer access control list name

Use this attribute to prevent the distribution of any locally assigned labels

Attribute Name: prefix-access-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <label-mapping-access-lists>
    <label-mapping-access-list>
      <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
    <config>
      <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
      <peer-access-control-list-name>WORD</peer-access-control-list-name>
    </config>
    <peer-access-control-list-name>WORD</peer-access-control-list-name>
  </label-mapping-access-list>
</label-mapping-access-lists>
</ldp>
```

Command Syntax

```
advertise-labels for PREFIX to (any|PEER)
```

Configure tcp mss range

Use this attribute to specify LDP neighbors

Attribute Name: peer-address

Attribute Type: union

Attribute Name: tcp-mss-range

Attribute Type: uint32

Attribute Range: 560-1440

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <tcp-mss-lists>
    <tcp-mss-list> <!-- operation="delete"-->
      <peer-address>all</peer-address>
    <config>
      <peer-address>all</peer-address>
      <tcp-mss-range>560</tcp-mss-range>
    </config>
  </tcp-mss-list>
</tcp-mss-lists>
</ldp>
```

Command Syntax

```
neighbor (all|auto-targeted|A.B.C.D) tcp-mss <560-1440>
```

Configure prefix control list name

Use this attribute to prevent processing of received labels

Attribute Name: prefix-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <received-label-control-lists>
    <received-label-control-list>
      <prefix-control-list-name>WORD</prefix-control-list-name>
    <config>
      <prefix-control-list-name>WORD</prefix-control-list-name>
      <peer-control-list-name>WORD</peer-control-list-name>
    </config>
    <peer-control-list-name>WORD</peer-control-list-name>
  </received-label-control-list>
</received-label-control-lists>
</ldp>
```

Command Syntax

```
install-labels for any from none
```

Configure peer control list name

Use this attribute to prevent processing of received labels

Attribute Name: prefix-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <received-label-control-lists>
    <received-label-control-list>
      <prefix-control-list-name>WORD</prefix-control-list-name>
    <config>
      <prefix-control-list-name>WORD</prefix-control-list-name>
      <peer-control-list-name>WORD</peer-control-list-name>
    </config>
    <peer-control-list-name>WORD</peer-control-list-name>
  </received-label-control-list>
</received-label-control-lists>
</ldp>
```

Command Syntax

```
install-labels for PREFIX from (any|PEER)
```

clear ldp statistics

Netconf RPC payload

```
<clear-ldp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp statistics
```

clear ldp statistics advertise-labels

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp statistics advertise-labels
```

clear ldp statistics advertise-labels for PREFIX

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels-prefix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <prefix>PREFIX</prefix>
</clear-ldp-statistics-advertise-labels-prefix>
```

Command Syntax

```
clear ldp statistics advertise-labels for PREFIX
```

clear ldp statistics advertise-labels for PREFIX to PEER

Attribute Name: prefix

Attribute Type: string

Attribute Name: peer

Attribute Type: string

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels-prefix-peer xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <prefix>PREFIX</prefix>
  <peer>PEER</peer>
</clear-ldp-statistics-advertise-labels-prefix-peer>
```

Command Syntax

```
clear ldp statistics advertise-labels for PREFIX to PEER
```

clear ldp session *

Netconf RPC payload

```
<clear-ldp-session-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp session *
```

clear ldp session A.B.C.D

Attribute Name: addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-ldp-session-ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">  
<addr>A.B.C.D</addr>  
</clear-ldp-session-ipv4>
```

Command Syntax

```
clear ldp session A.B.C.D
```

clear ldp adjacency *

Netconf RPC payload

```
<clear-ldp-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp adjacency *
```

clear ldp adjacency A.B.C.D

Attribute Name: addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-ldp-adjacency-ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">  
<addr>A.B.C.D</addr>  
</clear-ldp-adjacency-ipv4>
```

Command Syntax

```
clear ldp adjacency A.B.C.D
```

snmp restart ldp

Netconf RPC payload

```
<snmp-restart-ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
snmp restart ldp
```

debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf RPC payload

```
<ldp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <terminal-debug-options>events</terminal-debug-options>
</ldp-terminal-debug-on>
```

Command Syntax

```
debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc
  dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet
  initialization|packet keepalive|packet address|packet label|packet|all)
```

no debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf RPC payload

```
<ldp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <terminal-debug-options>events</terminal-debug-options>
</ldp-terminal-debug-off>
```

Command Syntax

```
no debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc
  usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet
```

```
hello|packet initialization|packet keepalive|packet address|packet  
label|packet|all)
```

restart ldp graceful

Netconf RPC payload

```
<restart-ldp-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
restart ldp graceful
```

IPI-LDP-INTERFACE

Configure enable ldp ipv4

Use this attribute to enable LDP IPv4, on a specified interface. This command enables the transmission of Hello packets through the current interface, so that LDP adjacencies and LDP sessions can be created.

Attribute Name: enable-ldp-ipv4

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">  
<interfaces>  
<interface>  
  <name>WORD</name>  
  <config>  
    <name>WORD</name>  
  </config>  
  </enable-ldp-ipv4><!-- operation="delete"-->  
</interface>  
</interfaces>  
</ldp>
```

Command Syntax

```
enable-ldp ipv4
```

Configure name

Use this attribute to enable LDP IPv4, on a specified interface. This command enables the transmission of Hello packets through the current interface, so that LDP adjacencies and LDP sessions can be created.

Attribute Name: enable-ldp-ipv4

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
```

```
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </enable-ldp-ipv4><!-- operation="delete"-->
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
enable-ldp ipv4 no-igp-sync
```

Configure multicast hello disable

Use this attribute to enable multicast hello exchange on specified interfaces enabled for LDP.

Attribute Name: multicast-hello-disable

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </multicast-hello-disable><!-- operation="delete"-->
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
no ldp multicast-hellos
```

Configure maximum pdu length

Use this attribute to specify max pdu length

Attribute Name: maximum-pdu-length

Attribute Type: uint32

Default Value: 4096

Attribute Range: 256-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <maximum-pdu-length>256</maximum-pdu-length> <!-- operation="delete"-->
</interface>
</interfaces>
</ldp>

```

Command Syntax

```
ldp max-pdu-length <256-65535>
```

Configure ldp igp sync delay interval

Use this attribute to configure a synchronization delay, that is, a delay for notifications of LDP convergence to the IGP protocol used, which can be either IS-IS or OSPF.

Attribute Name: ldp-igp-sync-delay-interval

Attribute Type: uint32

Attribute Range: 5-60

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ldp-igp-sync-delay-interval>5</ldp-igp-sync-delay-interval> <!--
operation="delete"-->
    </interface>
  </interfaces>
</ldp>

```

Command Syntax

```
mpls ldp-igp sync-delay <5-60>
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <hello-timers>
  <config>
    <hello-interval>1</hello-interval> <!-- operation="delete"-->
  </config>
</hello-timers>
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
ldp hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 15

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <hello-timers>
  <config>
    <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
  </config>
</hello-timers>
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
ldp hold-time <3-65535>
```

Configure keepalive interval

Use this attribute to set the global value for the interval after which keep-alive packets are sent out

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <session-timers>
        <config>
          <keepalive-interval>1</keepalive-interval> <!-- operation="delete"-->
        </config>
      </session-timers>
    </interface>
  </interfaces>
</ldp>
```

Command Syntax

```
ldp keepalive-interval <1-21845>
```

Configure keepalive timeout

Use this attribute to set the time period for which an LSR must wait for successive keep-alive messages from LDP peers

Attribute Name: keepalive-timeout

Attribute Type: uint16

Default Value: 30

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <session-timers>
        <config>
```

```

        <keepalive-timeout>3</keepalive-timeout> <!-- operation="delete"-->
    </config>
</session-timers>
</interface>
</interfaces>
</ldp>

```

Command Syntax

```
ldp keepalive-timeout <3-65535>
```

Configure interface advertisement mode

Use this attribute to set the label advertisement mode for an interface to either downstream-ondemand (label is sent only when requested) or downstream-unsolicited (label is sent unrequested).

Attribute Name: interface-advertisement-mode

Attribute Type: enum (downstream-unsolicited|downstream-on-demand)

Default Value: downstream-unsolicited

Netconf edit-config payload

```

<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <label-management>
        <config>
          <interface-advertisement-mode>downstream-unsolicited</interface-
advertisement-mode> <!-- operation="delete"-->
        </config>
      </label-management>
    </interface>
  </interfaces>
</ldp>

```

Command Syntax

```
ldp advertisement-mode (downstream-unsolicited|downstream-on-demand)
```

Configure interface retention mode

Use this attribute to set the retention mode to be used for all labels exchanged via the given interface. When an LSR receives a label binding for a particular FEC (Forwarding Equivalence Class) from another LSR that is not its next hop for that FEC, it might keep track of such bindings or discard them. Use the liberal parameter to retain all labels binding to FEC received from label distribution peers, even if the LSR is not the current next-hop. Use the conservative parameter to maintain only the label bindings for valid next-hops in a LSP. Liberal label retention mode allows for quicker adaptation to routing changes, whereas conservative label retention mode requires an LSR to maintain fewer labels.

Attribute Name: interface-retention-mode

Attribute Type: enum (liberal|conservative)

Default Value: liberal

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <label-management>
        <config>
          <interface-retention-mode>liberal</interface-retention-mode> <!--
operation="delete"-->
        </config>
      </label-management>
    </interface>
  </interfaces>
</ldp>
```

Command Syntax

```
ldp label-retention-mode (liberal|conservative)
```

IPI-LDP-PEER

Configure targeted global hello interval

Use this attribute to set the interval for sending unicast hello packets to targeted peers

Attribute Name: targeted-global-hello-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <global-timers>
      <config>
        <targeted-global-hello-interval>1</targeted-global-hello-interval> <!--
operation="delete"-->
      </config>
    </global-timers>
  </targeted-peers>
</ldp>
```

Command Syntax

```
targeted-peer-hello-interval <1-21845>
```

Configure targeted global hello holdtime

Use this attribute to set the time-out value that is the time that the router waits before rejecting an adjacency with targeted peers.

Attribute Name: targeted-global-hello-holdtime

Attribute Type: uint16

Default Value: 45

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <global-timers>
      <config>
        <targeted-global-hello-holdtime>3</targeted-global-hello-holdtime> <!--
operation="delete"-->
      </config>
    </global-timers>
  </targeted-peers>
</ldp>
```

Command Syntax

```
targeted-peer-hold-time <3-65535>
```

Configure target address

Use this attribute to enter a targeted IPv4 or IPv6 LDP peer mode. A targeted session is an LDP session between non-directly connected LSRs. Set this command to send a targeted hello messages to specific IP addresses. This command is specific to a targeted IPv4 or IPv6 LDP peer.

Attribute Name: target-address

Attribute Type: union

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <targeted-peer> <!-- operation="delete"-->
      <target-address>LDP_IP_ADDR_T</target-address>
    <config>
      <target-address>LDP_IP_ADDR_T</target-address>
    </config>
  </targeted-peer>
</targeted-peers>
</ldp>
```

Command Syntax

```
targeted-peer (ipv4 A.B.C.D)
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <targeted-peer>
      <target-address>LDP_IP_ADDR_T</target-address>
      <config>
        <target-address>LDP_IP_ADDR_T</target-address>
      </config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
    </targeted-peer>
  </targeted-peers>
</ldp>
```

Command Syntax

```
hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 45

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <targeted-peer>
      <target-address>LDP_IP_ADDR_T</target-address>
      <config>
        <target-address>LDP_IP_ADDR_T</target-address>
      </config>
      <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
    </targeted-peer>
  </targeted-peers>
</ldp>
```

```
</ldp>
```

Command Syntax

```
hold-time <3-65535>
```

Configure tunnel

Use this attribute to specify tunnel for targeted peer

Attribute Name: tunnel

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
  <targeted-peers>
    <targeted-peer>
      <target-address>LDP_IP_ADDR_T</target-address>
      <config>
        <target-address>LDP_IP_ADDR_T</target-address>
      </config>
    </targeted-peer><!-- operation="delete"-->
  </targeted-peers>
</ldp>
```

Command Syntax

```
(tunneling|)
```

IPI-QOS

Configure enable qos

Use this attribute to globally enable or disable QoS

Attribute Name: enable-qos

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <config>
      <enable-qos>disable</enable-qos> <!-- operation="delete"-->
    </config>
  </global>
</qos>
```

Command Syntax

```
qos (disable|enable)
```

Configure name

Use this attribute to set a name to CoS to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <cos-to-queue-profiles>
        <cos-to-queue-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </cos-to-queue-profile>
      </cos-to-queue-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
qos profile cos-to-queue (NAME|default)
```

Configure cos value

Use this attribute to map a Class of Service (CoS) value to a particular Traffic-Class

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <cos-to-queue-profiles>
        <cos-to-queue-profile>
          <name>NAME</name>
```



```

    <config>
      <name>WORD</name>
    </config>
  <cos-to-queues>
    <cos-to-queue> <!-- operation="delete"-->
      <cos-value>0</cos-value>
      <config>
        <cos-value>0</cos-value>
        <queue-id>0</queue-id>
      </config>
    </cos-to-queue>
  </cos-to-queues>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
cos <0-7> queue <0-7>
```

Configure remark queue id

Use this attribute to select the remarked Traffic-Class cos is mapped to

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: remark-queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <cos-to-queue-profiles>
        <cos-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </cos-to-queue-profile>
      </cos-to-queue-profiles>
    </map-profile>
  </global>
</qos>

```

```

    <queue-id>0</queue-id> <!-- operation="delete"-->
  </config>
    <remark-queue-id>0</remark-queue-id> <!-- operation="delete"-->
</cos-to-queue>
</cos-to-queues>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
cos <0-7> queue <0-7> remark-queue <0-7>
```

Configure queue id

Use this attribute to select the Traffic-Class CoS is mapped to

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <cos-to-queue-profiles>
        <cos-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        <cos-to-queues>
          <cos-to-queue>
            <cos-value>0</cos-value>
            <config>
              <cos-value>0</cos-value>
            </config>
            <queue-id>0</queue-id> <!-- operation="delete"-->
          </cos-to-queue>
        </cos-to-queues>
      </cos-to-queue-profile>
    </cos-to-queue-profiles>
  </map-profile>
</global>
</qos>

```

Command Syntax

```
cos <0-7> queue <0-7>
```

Configure dscp-to-dscp-profiles name

Use this attribute to set a name to DSCP to DSCP profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <dscp-to-dscp-profiles>
        <dscp-to-dscp-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </dscp-to-dscp-profile>
      </dscp-to-dscp-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
qos profile dscp-to-dscp (NAME|default)
```

Configure color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <dscp-to-dscp-profiles>
```

```

<dscp-to-dscp-profile>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
<dscp-to-dscps>
<dscp-to-dscp> <!-- operation="delete"-->
  <color>all</color>
  <config>
    <color>all</color>
    <dscp-value>0</dscp-value>
    <remark-dscp-value>0</remark-dscp-value>
  </config>
  <dscp-value>0</dscp-value>
</dscp-to-dscp>
</dscp-to-dscps>
</dscp-to-dscp-profile>
</dscp-to-dscp-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
dscp <0-63> (color (green|yellow|red|all)|) dscp <0-63>
```

Configure precedence-to-precedence-profiles name

Use this attribute to set a name to Precedence to Precedence profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <precedence-to-precedence-profiles>
      <precedence-to-precedence-profile> <!-- operation="delete"-->
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      </precedence-to-precedence-profile>
    </precedence-to-precedence-profiles>
  </map-profile>
</global>
</qos>

```

Command Syntax

```
qos profile precedence-to-precedence NAME
```

Configure precedence value

Use this attribute to select IP Precedence value in

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: remark-precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <precedence-to-precedence-profiles>
        <precedence-to-precedence-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </precedence-to-precedence>
      </precedence-to-precedence-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
precedence <0-7> precedence <0-7>
```

Configure dscp-to-queue-profiles name

Use this attribute to set a name to DSCP to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <dscp-to-queue-profiles>
        <dscp-to-queue-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </dscp-to-queue-profile>
      </dscp-to-queue-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
qos profile dscp-to-queue (NAME|default)
```

Configure remark dscp value

Use this attribute to select Differentiated Services Control Protocol (DSCP) value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <dscp-to-queue-profiles>
        <dscp-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </dscp-to-queue-profile>
      </dscp-to-queue-profiles>
    </map-profile>
  </global>
</qos>
```

```

<dscp-to-queues>
<dscp-to-queue>
  <dscp-value>0</dscp-value>
  <config>
    <dscp-value>0</dscp-value>
    <queue-id>0</queue-id> <!-- operation="delete"-->
    <color>green</color> <!-- operation="delete"-->
  </config>
  <remark-dscp-value>0</remark-dscp-value> <!-- operation="delete"-->
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
dscp <0-63> queue <0-7> color (green|yellow|red) dscp <0-63>
```

Configure dscp value

Use this attribute to select the color to map.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
<dscp-to-queues>
<dscp-to-queue>
  <dscp-value>0</dscp-value>
  <config>
    <dscp-value>0</dscp-value>
    <queue-id>0</queue-id> <!-- operation="delete"-->
  </config>
  <color>green</color> <!-- operation="delete"-->

```

```

</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
dscp <0-63> queue <0-7> color (green|yellow|red)
```

Configure dscp-to-queue queue-id

Use this attribute to select the Traffic-Class DSCP is mapped to

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
<dscp-to-queues>
<dscp-to-queue>
  <dscp-value>0</dscp-value>
  <config>
    <dscp-value>0</dscp-value>
  </config>
  <queue-id>0</queue-id> <!-- operation="delete"-->
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
dscp <0-63> queue <0-7>
```

Configure dscp-to-queue remark-dscp-value

Use this attribute to select Differentiated Services Control Protocol (DSCP) value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <dscp-to-queue-profiles>
        <dscp-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        <dscp-to-queues>
          <dscp-to-queue>
            <dscp-value>0</dscp-value>
            <config>
              <dscp-value>0</dscp-value>
              <queue-id>0</queue-id> <!-- operation="delete"-->
            </config>
            <remark-dscp-value>0</remark-dscp-value> <!-- operation="delete"-->
          </dscp-to-queue>
        </dscp-to-queues>
      </dscp-to-queue-profile>
    </dscp-to-queue-profiles>
  </map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> queue <0-7> dscp <0-63>
```

Configure profile id

Use this attribute to set a name to MPLS experimental (EXP) to Traffic-Class profile name. Default value is 0.

This command is supported when following feature are enabled Diffserv feature, QoS Mapping Profile feature

Attribute Name: profile-id

Attribute Type: enum (default)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <exp-to-queue-profiles>
        <exp-to-queue-profile> <!-- operation="delete"-->
          <profile-id>default</profile-id>
          <config>
            <profile-id>default</profile-id>
          </config>
        </exp-to-queue-profile>
      </exp-to-queue-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
qos profile exp-to-queue default
```

Configure exp value

Use this attribute to select the color mapped to.

This command is supported when following feature are enabled Diffserv feature, QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <exp-to-queue-profiles>
        <exp-to-queue-profile>
          <profile-id>default</profile-id>
          <config>
            <profile-id>default</profile-id>
          </config>
        <exp-to-queues>
          <exp-to-queue>
            <exp-value>0</exp-value>
            <config>
              <exp-value>0</exp-value>
              <queue-id>0</queue-id> <!-- operation="delete"-->
            </config>
            <color>green</color> <!-- operation="delete"-->
          </exp-to-queue>
        </exp-to-queues>
      </exp-to-queue-profiles>
    </map-profile>
  </global>
</qos>
```

```

</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
exp <0-7> queue <0-7> color (green|yellow|red)
```

Configure exp-to-queue queue-id

Use this attribute to select the Traffic-Class mapped to

This command is supported when following feature are enabled Diffserv feature, QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile>
  <profile-id>default</profile-id>
  <config>
    <profile-id>default</profile-id>
  </config>
<exp-to-queues>
<exp-to-queue>
  <exp-value>0</exp-value>
  <config>
    <exp-value>0</exp-value>
  </config>
  <queue-id>0</queue-id> <!-- operation="delete"-->
</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
exp <0-7> queue <0-7>
```

Configure remark queue value

Use this attribute to select the remark Traffic-Class is mapped to

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: remark-queue-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <exp-to-queue-profiles>
        <exp-to-queue-profile>
          <profile-id>default</profile-id>
          <config>
            <profile-id>default</profile-id>
          </config>
        </exp-to-queue-profile>
      </exp-to-queue-profiles>
      <exp-to-queues>
        <exp-to-queue>
          <exp-value>0</exp-value>
          <config>
            <exp-value>0</exp-value>
            <queue-id>0</queue-id> <!-- operation="delete"-->
          </config>
          <remark-queue-value>0</remark-queue-value> <!-- operation="delete"-->
        </exp-to-queue>
      </exp-to-queues>
    </exp-to-queue-profile>
  </exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7> remark-queue <0-7>
```

Configure exp-to-queue remark-queue-value

Use this attribute to select the remark Traffic-Class is mapped to

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: remark-queue-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <exp-to-queue-profiles>
        <exp-to-queue-profile>
          <profile-id>default</profile-id>
          <config>
            <profile-id>default</profile-id>
          </config>
        <exp-to-queues>
          <exp-to-queue>
            <exp-value>0</exp-value>
            <config>
              <exp-value>0</exp-value>
              <queue-id>0</queue-id> <!-- operation="delete"-->
              <color>green</color> <!-- operation="delete"-->
            </config>
            <remark-queue-value>0</remark-queue-value> <!-- operation="delete"-->
          </exp-to-queue>
        </exp-to-queues>
      </exp-to-queue-profile>
    </exp-to-queue-profiles>
  </map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7> color (green|yellow|red) remark-queue <0-7>
```

Configure queue-to-exp-profiles name

Use this attribute to set a name to MPLS experimental (EXP) to Traffic-Class profile name

This command is supported when following feature are enabled Diffserv feature, QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
```

```

<map-profile>
<queue-to-exp-profiles>
<queue-to-exp-profile> <!-- operation="delete"-->
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</queue-to-exp-profile>
</queue-to-exp-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
qos profile queue-to-exp (NAME|default)
```

Configure queues-color-to-exp color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled Diffserv feature, QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: exp-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-to-exp-profiles>
<queue-to-exp-profile>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
<queues-color-to-exp>
<queue-color-to-exp> <!-- operation="delete"-->
  <color>all</color>
  <config>
    <color>all</color>
    <queue-id>0</queue-id>
    <exp-value>0</exp-value>
  </config>
  <queue-id>0</queue-id>
</queue-color-to-exp>
</queues-color-to-exp>
</queue-to-exp-profile>

```

```

</queue-to-exp-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all) |) exp <0-7>
```

Configure queue-color-to-cos-profiles name

Use this attribute to select the Traffic-Class color to CoS profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <queue-color-to-cos-profiles>
        <queue-color-to-cos-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </queue-color-to-cos-profile>
      </queue-color-to-cos-profiles>
    </map-profile>
  </global>
</qos>

```

Command Syntax

```
qos profile queue-color-to-cos (NAME|default)
```

Configure queue-color-to-coses color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <queue-color-to-cos-profiles>
        <queue-color-to-cos-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        <queue-color-to-coses>
        <queue-color-to-cos> <!-- operation="delete"-->
          <color>all</color>
          <config>
            <color>all</color>
            <queue-id>0</queue-id>
            <cos-value>0</cos-value>
          </config>
          <queue-id>0</queue-id>
        </queue-color-to-cos>
      </queue-color-to-coses>
    </queue-color-to-cos-profile>
  </queue-color-to-cos-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all)|) cos <0-7>
```

Configure precedence-to-queue-profiles name

Use this attribute to set a name to Precedence to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <precedence-to-queue-profiles>
        <precedence-to-queue-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>

```



```

</precedence-to-queue-profile>
</precedence-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
qos profile precedence-to-queue NAME
```

Configure precedence-to-queue queue-id

Use this attribute to select the Traffic-Class IP Precedence is mapped to

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<precedence-to-queue-profiles>
<precedence-to-queue-profile>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</precedence-to-queue>
</precedence-to-queue>
  <precedence-value>0</precedence-value>
  <config>
    <precedence-value>0</precedence-value>
  </config>
  <queue-id>0</queue-id> <!-- operation="delete"-->
</precedence-to-queue>
</precedence-to-queue>
</precedence-to-queue-profile>
</precedence-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
precedence <0-7> queue <0-7>
```

Configure remark precedence value

Use this attribute to select IP Precedence value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <precedence-to-queue-profiles>
        <precedence-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </precedence-to-queue-profile>
      </precedence-to-queue-profiles>
      <precedence-to-queue>
        <precedence-value>0</precedence-value>
        <config>
          <precedence-value>0</precedence-value>
          <queue-id>0</queue-id> <!-- operation="delete"-->
        </config>
        <remark-precedence-value>0</remark-precedence-value> <!-- operation="delete"-->
      </precedence-to-queue>
    </precedence-to-queue>
  </precedence-to-queue>
</global>
</qos>
```

Command Syntax

```
precedence <0-7> queue <0-7> precedence <0-7>
```

Configure queue-color-to-dscp-profiles name

Use this attribute to select the Traffic-Class color to DSCP profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <queue-color-to-dscp-profiles>
      <queue-color-to-dscp-profile> <!-- operation="delete"-->
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      </queue-color-to-dscp-profile>
    </queue-color-to-dscp-profiles>
  </map-profile>
</global>
</qos>

```

Command Syntax

```
qos profile queue-color-to-dscp (NAME|default)
```

Configure queue-color-to-dscps color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <queue-color-to-dscp-profiles>
      <queue-color-to-dscp-profile>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      <queue-color-to-dscps>
      <queue-color-to-dscp> <!-- operation="delete"-->
        <color>all</color>
        <config>
          <color>all</color>
          <queue-id>0</queue-id>
          <dscp-value>0</dscp-value>
        </config>
      </queue-color-to-dscp>
    </queue-color-to-dscp-profiles>
  </map-profile>
</global>
</qos>

```

```

        <queue-id>0</queue-id>
    </queue-color-to-dscp>
</queue-color-to-dscps>
</queue-color-to-dscp-profile>
</queue-color-to-dscp-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all)|) dscp <0-63>
```

Configure egress-dynamic-ecn-profiles name

Use this attribute to select the Egress Dynamic ECN profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <egress-dynamic-ecn-profiles>
        <egress-dynamic-ecn-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </egress-dynamic-ecn-profile>
      </egress-dynamic-ecn-profiles>
    </map-profile>
  </global>
</qos>

```

Command Syntax

```
qos profile egress-dynamic-ecn NAME
```

Configure on offset

Use this attribute to select the Traffic-Class to map

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: on-offset

Attribute Type: uint32

Attribute Range: 1-266338050

Attribute Name: off-offset

Attribute Type: uint32

Attribute Range: 1-266338050

Attribute Name: offset-unit

Attribute Type: enum (packets|bytes|kbytes)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <map-profile>
      <egress-dynamic-ecn-profiles>
        <egress-dynamic-ecn-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </egress-dynamic-ecn>
        <egress-dynamic-ecn> <!-- operation="delete"-->
          <queue-id>0</queue-id>
          <config>
            <queue-id>0</queue-id>
            <on-offset>1</on-offset>
            <off-offset>1</off-offset>
            <offset-unit>packets</offset-unit>
          </config>
        </egress-dynamic-ecn>
      </egress-dynamic-ecn-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
queue <0-7> on-offset <1-266338050> off-offset <1-266338050> (packets|bytes|kbytes)
```

Configure cos

Use this command to enable remarking of CoS set by the egress map

Attribute Name: cos

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <remark>
      <config>
        </cos><!-- operation="delete"-->
      </config>
    </remark>
  </global>
</qos>
```

Command Syntax

```
qos remark cos
```

Configure dei

Use this command to enable remarking of DEI set by the egress map

Attribute Name: dei

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <remark>
      <config>
        </dei><!-- operation="delete"-->
      </config>
    </remark>
  </global>
</qos>
```

Command Syntax

```
qos remark dei
```

Configure dscp

Use this command to enable remarking of DSCP set by the egress map

Attribute Name: dscp

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <remark>
      <config>
        </dscp><!-- operation="delete"-->
      </config>
    </remark>
  </global>
</qos>
```

```
</global>
</qos>
```

Command Syntax

```
qos remark dscp
```

Configure type

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
          <match-criteria>1</match-criteria>
        </config>
      <name>NAME</name>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
class-map NAME
```

Configure match criteria

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```

<global>
<class-maps>
<class-map> <!-- operation="delete"-->
  <type>qos</type>
  <config>
    <type>qos</type>
    <name>NAME</name>
    <match-criteria>1</match-criteria>
  </config>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
class-map type (qos) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
  <type>qos</type>
  <config>
    <type>qos</type>
    <name>NAME</name>
    <match-criteria>match-all</match-criteria>
  </config>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
class-map type (qos) (match-all) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
          <match-criteria>match-all</match-criteria>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
class-map type (qos) (match-any) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
```

```

        <name>NAME</name>
        <match-criteria>match-all</match-criteria>
    </config>
    <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
class-map (match-any) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map> <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
          <match-criteria>match-all</match-criteria>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>

```

Command Syntax

```
class-map (match-all) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map> <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
          <match-criteria>match-all</match-criteria>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
class-map type (copp) (match-any) NAME
```

Configure reference description

This attribute configures reference description message on class-map profile for QoS type.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
          <reference-description>LINE</reference-description> <!-- operation="delete"-->
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

reference-description LINE

Configure access control list name

Use this attribute to classify traffic based on the Access Control List (ACL)

Attribute Name: access-control-list-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <access-control-list-name>NAME</access-control-list-name> <!--
operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

match access-group NAME

Configure match-any-conditions access-control-list-name

Use this attribute to classify traffic based on the Access Control List (ACL)

Attribute Name: access-control-list-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
```

```

    <type>qos</type>
    <config>
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-any-conditions>
<config>
    <access-control-list-name>NAME</access-control-list-name> <!--
operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match access-group NAME
```

Configure ethertype

Use this attribute to classify traffic based on the EtherType value(s)

Attribute Name: ethertype

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-any-conditions>
<config>
    <ethertype>WORD</ethertype> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match ethertype WORD
```

Configure traffic type

Use this attribute to classify traffic based on the traffic type value

Attribute Name: traffic-type

Attribute Type: enum (l2-mc|l2-bc|default|l2-unknown)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <traffic-type>l2-mc</traffic-type> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match traffic-type (l2-mc|l2-bc|default|l2-unknown)
```

Configure match-any-conditions cos

Use this attribute to classify traffic based on the Class of Service (CoS) value

Attribute Name: cos

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <cos>cos</cos>
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

```

<match-any-conditions>
<config>
    <cos>WORD</cos> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match cos WORD
```

Configure inner cos

Use this attribute to classify traffic based on inner Class of Service (CoS) value

Attribute Name: inner-cos

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-any-conditions>
<config>
    <inner-cos>WORD</inner-cos> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match cos inner WORD
```

Configure vlan

Use this attribute to classify traffic based on VLAN ID. Enter VLAN ID 1-4094 or range of VLAN ID's.

Attribute Name: vlan

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
match vlan WORD
```

Configure inner vlan

Use this attribute to classify traffic based on inner VLAN ID. Enter VLAN ID 1-4094 or range of VLAN ID's.

Attribute Name: inner-vlan

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```



```
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match vlan inner WORD
```

Configure rtp

Use this attribute to classify traffic based on the Real-time Transport Protocol (RTP). The rtp value 2000-65535 or range of rtp values.

Attribute Name: rtp

Attribute Type: string

Attribute Range: 2000-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <rtp>WORD</rtp> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match ip rtp WORD
```

Configure mpls exp

Use this attribute to classify traffic based on the MPLS experimental (EXP) value

Attribute Name: mpls-exp

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <mpls-exp>WORD</mpls-exp> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match mpls experimental topmost WORD
```

Configure match-any-conditions dscp

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric.

Attribute Name: dscp

Attribute Type: string

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <dscp>WORD</dscp> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

```

</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match dscp WORD
```

Configure ipv6 dscp

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric.

Attribute Name: ipv6-dscp

Attribute Type: string

Attribute Range: 0-63

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <ipv6-dscp>WORD</ipv6-dscp> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>

```

Command Syntax

```
match ipv6 dscp WORD
```

Configure precedence

Use this attribute to classify traffic based on the precedence value. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric.

Attribute Name: precedence

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <config>
          <precedence>WORD</precedence> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match precedence WORD
```

Configure ipv6 precedence

Use this attribute to classify IPv6 traffic based on the precedence value. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric.

Attribute Name: ipv6-precedence

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```

<match-any-conditions>
<config>
    <ipv6-precedence>WORD</ipv6-precedence> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match ipv6 precedence WORD
```

Configure port type

Use this attribute to classify traffic based on layer 4 source port or destination port

Attribute Name: port-type

Attribute Type: enum (source-port|destination-port)

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-any-conditions>
<ipv4>
<layer4-match> <!-- operation="delete"-->
    <port-type>source-port</port-type>
    <config>
        <port-type>source-port</port-type>
        <protocol>any</protocol>
        <port>WORD</port>
    </config>
    <protocol>any</protocol>
</layer4-match>
</ipv4>
</match-any-conditions>
</class-map>
</class-maps>

```

```
</global>
</qos>
```

Command Syntax

```
match layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure protocol

Use this attribute to classify traffic based on layer 4 source port or destination port

Attribute Name: port-type

Attribute Type: enum (source-port|destination-port)

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-any-conditions>
        <ipv6>
          <layer4-match> <!-- operation="delete"-->
            <port-type>source-port</port-type>
            <config>
              <port-type>source-port</port-type>
              <protocol>any</protocol>
              <port>WORD</port>
            </config>
            <protocol>any</protocol>
          </layer4-match>
        </ipv6>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure ethertype all

Use this attribute to classify traffic based on the EtherType value

Attribute Name: ethertype-all

Attribute Type: string

Attribute Range: 5-6

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-all-conditions>
        <config>
          <ethertype-all>WORD</ethertype-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match ethertype WORD
```

Configure traffic type all

Use this attribute to classify traffic based on the traffic type

Attribute Name: traffic-type-all

Attribute Type: enum (l2-mc|l2-bc|default|l2-unknown)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```

<match-all-conditions>
<config>
    <traffic-type-all>l2-mc</traffic-type-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match traffic-type (l2-mc|l2-bc|default|l2-unknown)
```

Configure cos all

Use this attribute to classify traffic based on the Class of Service (CoS) value

Attribute Name: cos-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-all-conditions>
<config>
    <cos-all>0</cos-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match cos <0-7>
```

Configure inner cos all

Use this attribute to classify traffic based on the inner Class of Service (CoS) value

Attribute Name: inner-cos-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
match cos inner <0-7>
```

Configure vlan all

Use this attribute to classify traffic based on the VLAN ID

Attribute Name: vlan-all

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match vlan <1-4094>
```

Configure inner vlan all

Use this attribute to classify traffic based on the inner VLAN ID

Attribute Name: inner-vlan-all

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
  </global>
  <match-all-conditions>
    <config>
      <inner-vlan-all>1</inner-vlan-all> <!-- operation="delete"-->
    </config>
  </match-all-conditions>
</qos>
```

Command Syntax

```
match vlan inner <1-4094>
```

Configure rtp all

Use this attribute to classify traffic based on the Real-time Transport Protocol (RTP)

Attribute Name: rtp-all

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-all-conditions>
        <config>
          <rtp-all>WORD</rtp-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>

```

Command Syntax

```
match ip rtp WORD
```

Configure mpls exp all

Use this attribute to classify traffic based on the MPLS experimental (EXP) value

Attribute Name: mpls-exp-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-all-conditions>
        <config>
          <mpls-exp-all>0</mpls-exp-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>

```

```

</class-maps>
</global>
</qos>

```

Command Syntax

```
match mpls experimental topmost <0-7>
```

Configure dscp all

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp-all

Attribute Type: union

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      <match-all-conditions>
        <config>
          <dscp-all>default</dscp-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>

```

Command Syntax

```

match dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>)

```

Configure ipv6 dscp all

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value upon IPv6 packet. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: ipv6-dscp-all

Attribute Type: union

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
    <match-all-conditions>
      <config>
        <ipv6-dscp-all>default</ipv6-dscp-all> <!-- operation="delete"-->
      </config>
    </match-all-conditions>
  </global>
</qos>
```

Command Syntax

```
match ipv6 dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>)
```

Configure precedence all

Use this attribute to classify traffic based on the precedence value. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: precedence-all

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
    <match-all-conditions>
```

```

<config>
  <precedence-all>WORD</precedence-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match precedence WORD
```

Configure ipv6 precedence all

Use this attribute to classify traffic based on the precedence value upon IPv6 packet. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: ipv6-precedence-all

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
    <config>
      <ipv6-precedence-all>WORD</ipv6-precedence-all> <!-- operation="delete"-->
    </config>
  </match-all-conditions>
</global>
</qos>

```

Command Syntax

```
match ipv6 precedence WORD
```

Configure port all

Use this attribute to classify traffic based on the port

Attribute Name: port-all

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <name>NAME</name>
        </config>
        <name>NAME</name>
      </class-map>
    </class-maps>
    <match-all-conditions>
      <layer4-matches-ipv4>
        <layer4-match-ipv4> <!-- operation="delete"-->
          <port-all>WORD</port-all>
          <config>
            <port-all>1</port-all>
            <port-type-all>source-port</port-type-all>
            <protocol-all>any</protocol-all>
          </config>
          <port-type-all>source-port</port-type-all>
          <protocol-all>any</protocol-all>
        </layer4-match-ipv4>
      </layer4-matches-ipv4>
    </match-all-conditions>
  </class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure protocol all

Use this attribute to classify traffic based on the port

Attribute Name: port-all

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <type>qos</type>
        <config>
```

```

        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-all-conditions>
<layer4-matches-ipv6>
<layer4-match-ipv6> <!-- operation="delete"-->
    <port-all>WORD</port-all>
    <config>
        <port-all>1</port-all>
        <port-type-all>source-port</port-type-all>
        <protocol-all>any</protocol-all>
    </config>
    <port-type-all>source-port</port-type-all>
    <protocol-all>any</protocol-all>
</layer4-match-ipv6>
</layer4-matches-ipv6>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match ipv6 layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure class-maps-queuing name

Use this attribute to set the class-map-queuing name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|copp)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
        <name>NAME</name>
        <type>qos</type>
    </config>
</class-map-queuing>
</class-maps-queuing>
</global>

```



```
</qos>
```

Command Syntax

```
class-map type (queuing) WORD
```

Configure class-maps-queuing name

Use this attribute to set the class-map-queuing name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing> <!-- operation="delete"-->
        <name>WORD</name>
        <config>
          <name>NAME</name>
          <type>qos</type>
        </config>
      </class-map-queuing>
    </class-maps-queuing>
  </global>
</qos>
```

Command Syntax

```
class-map type (queuing) WORD
```

Configure class-map-queuing reference-description

This attribute configures reference description message on class-map profile for queuing.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
```

```

    <name>NAME</name>
  </config>
  <reference-description>LINE</reference-description> <!-- operation="delete"-->
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>

```

Command Syntax

```
reference-description LINE
```

Configure vlan queue

Use this attribute to classify traffic based on the VLAN ID

Attribute Name: vlan-queue

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
          <name>NAME</name>
        </config>
      <match-conditions>
        <config>
          <vlan-queue>1</vlan-queue> <!-- operation="delete"-->
        </config>
      </match-conditions>
    </class-map-queuing>
  </class-maps-queuing>
</global>
</qos>

```

Command Syntax

```
match vlan <1-4094>
```

Configure queue

Use this attribute to classify traffic based on queue value

Attribute Name: queue

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map-queuing>
    </class-maps-queuing>
  </global>
</qos>

```

Command Syntax

```
match queue <0-7>
```

Configure service template name

Use this attribute to classify traffic based on service template

Attribute Name: service-template-name

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map-queuing>
    </class-maps-queuing>
  </global>
</qos>

```

Command Syntax

```
match service-template NAME
```

Configure interface

Use this attribute to classify traffic based on the subinterface or vlan interface name

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map-queuing>
    </class-maps-queuing>
    <match-conditions>
      <config>
        <interface>IFNAME</interface> <!-- operation="delete"-->
      </config>
    </match-conditions>
  </global>
</qos>
```

Command Syntax

```
match interface IFNAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map> <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

```
</config>
<policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map> <!-- operation="delete"-->
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (qos) NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
```

```
<policy-map> <!-- operation="delete"-->
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

policy-map type (queuing) NAME

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map> <!-- operation="delete"-->
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

Command Syntax

policy-map type (queuing default) NAME

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map> <!-- operation="delete"-->
    <type>qos</type>
    <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (copp) NAME
```

Configure policy-map reference-description

This attribute configures reference description message on policy-map profile

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map>
    <type>qos</type>
    <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
    <reference-description>LINE</reference-description> <!-- operation="delete"-->
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
reference-description LINE
```

Configure class map name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <class> <!-- operation="delete"-->
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
      <class-type>qos</class-type>
    </config>
  </class>
</qos>
```

Command Syntax

```
class (type (qos)|) NAME
```

Configure class type

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```



```

<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class> <!-- operation="delete"-->
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
    <class-type>qos</class-type>
  </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
class (type (qos)|) class-default
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class> <!-- operation="delete"-->
  <class-map-name>NAME</class-map-name>

```

```

    <config>
      <class-map-name>NAME</class-map-name>
      <class-type>queuing</class-type>
    </config>
  </class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
class (type (queuing)|) class-default-q
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class> <!-- operation="delete"-->
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <class-type>queuing</class-type>
        </config>
      </class>
    </classes>
  </global>
</qos>

```

Command Syntax

```
class (type (queuing)|) NAME
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class> <!-- operation="delete"-->
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <class-type>qos</class-type>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
class type (queuing default) (q0|q1|q2|q3|q4|q5|q6|q7)
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class> <!-- operation="delete"-->
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <class-type>qos</class-type>
        </config>
      </class>
    </classes>
  </global>
</qos>

```

Command Syntax

```
class type (copp) NAME
```

Configure child service policy name

Use this attribute to attach a child service-policy to the policy-map

Attribute Name: child-service-policy-name

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>

```

```

        <class-map-name>NAME</class-map-name>
    </config>
    <child-service-policy-name>NAME</child-service-policy-name> <!--
operation="delete"-->
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
service-policy NAME
```

Configure class reference-description

This attribute configures reference description message on the association between policy-map profile and class-map profile.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
</classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
        <class-map-name>NAME</class-map-name>
    </config>
    <reference-description>LINE</reference-description> <!-- operation="delete"--
>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
reference-description LINE
```

Configure byte compensation

Use this attribute to set the compensation used to adjust this byte difference in order to achieve the expected egress queue rate.

Attribute Name: byte-compensation

Attribute Type: int8

Attribute Range: -64-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <config>
              <byte-compensation>-64</byte-compensation> <!-- operation="delete"-->
            </config>
          </queue-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
compensation <-64-64>
```

Configure priority level

Use this attribute to set the class traffic level for Priority queue scheduling algorithm

Attribute Name: priority-level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <config>
              <priority-level>0</priority-level> <!-- operation="delete"-->
            </config>
          </queue-mode>
        </config>
      </class>
    </classes>
  </policy-map>
</qos>
```

Command Syntax

```
priority level <0-7>
```

Configure weighted fair queueing queue weight

Use this attribute to set the weight for Weighted Fair Queueing queue scheduling algorithm

Attribute Name: weighted-fair-queueing-queue-weight

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
```

```

    <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
      </config>
      <queue-mode>
        <config>
          <weighted-fair-queueing-queue-weight>1</weighted-fair-queueing-queue-
weight> <!-- operation="delete"-->
        </config>
      </queue-mode>
    </class>
  </classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
wfq-queue weight <1-63>
```

Configure weight

Use this attribute to set weight for Weighted Random Early Detection

Attribute Name: weight

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
</qos>

```



```

        <class-map-name>NAME</class-map-name>
    </config>
    <queue-mode>
    <red>
    <config>
        <weight>0</weight> <!-- operation="delete"-->
    </config>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
random-detect weight <0-15>
```

Configure min threshold

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
    <policy-map>

```

```

    <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <queue-mode>
  <red>
  <wreds>
  <wred> <!-- operation="delete"-->
    <color>all</color>
    <config>
      <color>all</color>
      <min-threshold>1</min-threshold>
      <min-threshold-unit>packets</min-threshold-unit>
      <max-threshold>1</max-threshold>
      <max-threshold-unit>packets</max-threshold-unit>
      <drop-probability>1</drop-probability>
    </config>
  </wred>
</wreds>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

random-detect ((green|yellow|red|all)|) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)

```

Configure min threshold unit

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

```

</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

random-detect ((green|yellow|red|all)|) min-threshold <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) max-threshold <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)

```

Configure max threshold

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
</policy-map-name>NAME</policy-map-name>

```

```

<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <queue-mode>
  <red>
  <wreds>
  <wred> <!-- operation="delete"-->
    <color>all</color>
    <config>
      <color>all</color>
      <min-threshold>1</min-threshold>
      <min-threshold-unit>packets</min-threshold-unit>
      <max-threshold>1</max-threshold>
      <max-threshold-unit>packets</max-threshold-unit>
      <drop-probability>1</drop-probability>
    </config>
  </wred>
</wreds>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

random-detect ((green|yellow|red|all)|) <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) max-threshold <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)

```

Configure max threshold unit

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <red>
              <wreds>
                <wred> <!-- operation="delete"-->
                  <color>all</color>
                  <config>
                    <color>all</color>
                    <min-threshold>1</min-threshold>
                    <min-threshold-unit>packets</min-threshold-unit>
                    <max-threshold>1</max-threshold>
                    <max-threshold-unit>packets</max-threshold-unit>
                    <drop-probability>1</drop-probability>
                  </config>
                </wred>
              </wreds>
            </red>
          </queue-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
random-detect ((green|yellow|red|all)|) min-threshold <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) <1-629145600>
(packet|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)
```

Configure max threshold type

Use this attribute to set tail drop limits on egress queue

Attribute Name: max-threshold-type

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <tail-drops>
              <tail-drop> <!-- operation="delete"-->
                <max-threshold-type>packets</max-threshold-type>
                <config>
                  <max-threshold-type>packets</max-threshold-type>
                  <max-threshold>1</max-threshold>
                </config>
                <max-threshold>1</max-threshold>
              </tail-drop>
            </tail-drops>
          </queue-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
queue-limit <1-629145600> (packets|bytes|kbytes|mbytes|ms|us)
```

Configure rate value

Use this attribute to set a maximum shaping rate on the egress queue

Attribute Name: rate-value

Attribute Type: uint32

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <queue-mode>
          <shapes>
            <shape> <!-- operation="delete"-->
              <rate-unit>kbps</rate-unit>
              <config>
                <rate-unit>kbps</rate-unit>
                <rate-value>0</rate-value>
              </config>
              <rate-value>0</rate-value>
            </shape>
          </shapes>
        </queue-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
shape <1-483000000> (kbps|mbps|gbps)
```

Configure rate unit

Use this attribute to set a maximum shaping rate on the egress queue

Attribute Name: rate-value

Attribute Type: uint32

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <shapes>
              <shape> <!-- operation="delete"-->
                <rate-unit>kbps</rate-unit>
                <config>
                  <rate-unit>kbps</rate-unit>
                  <rate-value>0</rate-value>
                </config>
                <rate-value>0</rate-value>
              </shape>
            </shapes>
          </queue-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
shape (percent) <1-100>
```

Configure priority

Use this attribute to set the user priority for the class attached to this policy-map

Attribute Name: priority

Attribute Type: uint16

Attribute Range: 1-1000

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <qos>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <qos-mode>
            <config>
              <priority>1</priority> <!-- operation="delete"-->
            </config>
          </qos-mode>
        </config>
      </class>
    </classes>
  </qos>
</qos>

```

Command Syntax

```
priority <1-1000>
```

Configure color value remark

Use this attribute to match traffic classes set action as change color for egress processing.

Attribute Name: color-value-remark

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <qos>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <qos-mode>
            <config>
              <priority>1</priority> <!-- operation="delete"-->
            </config>
          </qos-mode>
        </config>
      </class>
    </classes>
  </qos>
</qos>

```

```

<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <config>
    <color-value-remark>green</color-value-remark> <!-- operation="delete"-->
  </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
set color (green|yellow|red)
```

Configure precedence remark

Use this attribute to match traffic classes set action as change precedence in the egress packet to the defined value. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: precedence-remark

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>

```

```

    <config>
        <precedence-remark>WORD</precedence-remark> <!-- operation="delete"-->
    </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
set precedence WORD
```

Configure qos-mode cos-value

Use this attribute to match traffic classes set action as change CoS in the egress packet to the defined value

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <config>
            <cos-value>0</cos-value> <!-- operation="delete"-->
          </config>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
set cos <0-7>
```

Configure dscp value remark

Use this attribute to match traffic classes set action as change DSCP in the egress packet to the defined value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp-value-remark

Attribute Type: string

Attribute Range: 1-8

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          < qos-mode>
            <config>
              <dscp-value-remark>WORD</dscp-value-remark> <!-- operation="delete"-->
            </config>
          </ qos-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
set dscp WORD
```

Configure qos-mode queue-id

Use this attribute to match traffic classes set action as change queue in the egress packet to the defined value

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-id>0</queue-id> <!-- operation="delete"-->
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
set queue <0-7>
```

Configure cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          </config>
          <qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </class>
      </classes>
    </policy-maps>
  </global>
</qos>

```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps)
```

Configure police type

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          < qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </ qos-mode>
        </class>
      </classes>
    </policy-maps>
  </global>
</qos>

```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100>
```

Configure cir unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
2438400000> (kbps|mbps|gbps)
```

Configure eir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
(kbps|mbps|gbps)
```

Configure eir unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </global>
</qos>
```

```

    </config>
  </police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
percent <1-100>

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
      </class>
    </classes>
  </global>
</qos>

```

```
<qos-mode>
<police>
<config>
  <police-type>none</police-type> <!-- operation="delete"-->
  <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
  <eir>1</eir> <!-- operation="delete"-->
  <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
  <cir>1</cir> <!-- operation="delete"-->
</config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100>
```

Configure bc

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <eir>1</eir> <!-- operation="delete"-->
                <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
                <bc>1</bc> <!-- operation="delete"-->
                <bc-unit>none</bc-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </config>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
2438400000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)

```

Configure bc unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
      </config>
      <qos-mode>
        <police>
          <config>
            <police-type>none</police-type> <!-- operation="delete"-->
            <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
            <eir>1</eir> <!-- operation="delete"-->
            <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
            <bc>1</bc> <!-- operation="delete"-->
            <bc-unit>none</bc-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
          </config>
        </police>
      </qos-mode>
    </class>
  </classes>
</qos>
```

```

</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
(kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>

```



```

<config>
  <class-map-name>NAME</class-map-name>
</config>
<qos-mode>
<police>
<config>
  <police-type>none</police-type> <!-- operation="delete"-->
  <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
  <eir>1</eir> <!-- operation="delete"-->
  <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
  <bc>1</bc> <!-- operation="delete"-->
  <bc-unit>none</bc-unit> <!-- operation="delete"-->
  <cir>1</cir> <!-- operation="delete"-->
</config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
              <bc-unit>none</bc-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> bc
<1-4161> (kbytes|mbytes|ms|us)
```

Configure be

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <be>1</be> <!-- operation="delete"-->
              <be-unit>none</be-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </global>
</qos>
```

```

</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware|)) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
2438400000> (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)

```

Configure be unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>

```

```

<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <eir>1</eir> <!-- operation="delete"-->
    <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
    <be>1</be> <!-- operation="delete"-->
    <be-unit>none</be-unit> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
      (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <be>1</be> <!-- operation="delete"-->
              <be-unit>none</be-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
percent <1-100> be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
      </config>
      <qos-mode>
        <police>
          <config>
            <police-type>none</police-type> <!-- operation="delete"-->
            <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
            <eir>1</eir> <!-- operation="delete"-->
            <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
            <be>1</be> <!-- operation="delete"-->
            <be-unit>none</be-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
          </config>
        </police>
      </qos-mode>
    </class>
  </classes>
</qos>
```

```

    </config>
  </police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> be
    <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbytes|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
      <config>
        <type>qos</type>

```



```

        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
<classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
        <class-map-name>NAME</class-map-name>
    </config>
    <qos-mode>
    <police>
    <config>
        <police-type>none</police-type> <!-- operation="delete"-->
        <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
        <bc>1</bc> <!-- operation="delete"-->
        <bc-unit>none</bc-unit> <!-- operation="delete"-->
        <be>1</be> <!-- operation="delete"-->
        <be-unit>none</be-unit> <!-- operation="delete"-->
        <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
              <bc-unit>none</bc-unit> <!-- operation="delete"-->
              <be>1</be> <!-- operation="delete"-->
              <be-unit>none</be-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> bc <1-4161>
(kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
              <bc-unit>none</bc-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </global>
</qos>
```

```

</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) bc <1-
4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->

```

```

        <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
        <bc>1</bc> <!-- operation="delete"-->
        <bc-unit>none</bc-unit> <!-- operation="delete"-->
        <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> bc <1-4161>
(kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <policy-map-name>NAME</policy-map-name>
    </config>
</policy-map-name>NAME</policy-map-name>

```

```

<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <be>1</be> <!-- operation="delete"-->
    <be-unit>none</be-unit> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) be <1-
4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>

```

```

<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <be>1</be> <!-- operation="delete"-->
    <be-unit>none</be-unit> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> be <1-4161>
(kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
              <bc-unit>none</bc-unit> <!-- operation="delete"-->
              <be>1</be> <!-- operation="delete"-->
              <be-unit>none</be-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </policy-maps>
  </global>
</qos>
```



```

</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
2438400000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
(kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>

```

```

<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <eir>1</eir> <!-- operation="delete"-->
    <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
    <bc>1</bc> <!-- operation="delete"-->
    <bc-unit>none</bc-unit> <!-- operation="delete"-->
    <be>1</be> <!-- operation="delete"-->
    <be-unit>none</be-unit> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
(kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
(kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </global>
</qos>
```

```

        <bc-unit>none</bc-unit> <!-- operation="delete"-->
        <be>1</be> <!-- operation="delete"-->
        <be-unit>none</be-unit> <!-- operation="delete"-->
        <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
    percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
    (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          < qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <eir>1</eir> <!-- operation="delete"-->
                <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
                <bc>1</bc> <!-- operation="delete"-->
                <bc-unit>none</bc-unit> <!-- operation="delete"-->
                <be>1</be> <!-- operation="delete"-->
                <be-unit>none</be-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </class>
      </classes>
    </policy-map>
  </policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> bc
<1-4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <eir>1</eir> <!-- operation="delete"-->
                <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </config>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2000000000> (kbps|mbps|gbps) eir <1-2000000000> (kbps|mbps|gbps)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
      </config>
      <qos-mode>
        <police>
          <config>
            <police-type>none</police-type> <!-- operation="delete"-->
            <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
            <eir>1</eir> <!-- operation="delete"-->
            <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
          </config>
        </police>
      </qos-mode>
    </class>
  </classes>
</qos>
```



```

</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
percent <1-100>

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
</policy-map-name>NAME</policy-map-name>

```

```

<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <eir>1</eir> <!-- operation="delete"-->
    <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
    <bc>1</bc> <!-- operation="delete"-->
    <bc-unit>none</bc-unit> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
200000000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <bc>1</bc> <!-- operation="delete"-->
              <bc-unit>none</bc-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </config>
      </class>
    </classes>
  </policy-map>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2000000000> (kbps|mbps|gbps) eir
percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
              <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
              <be>1</be> <!-- operation="delete"-->
              <be-unit>none</be-unit> <!-- operation="delete"-->
              <cir>1</cir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </policy-maps>
  </global>
</qos>
```

```
    </config>
  </police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2000000000> (kbps|mbps|gbps) eir <1-2000000000> (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

```

    <policy-map-name>NAME</policy-map-name>
  <classes>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
    </config>
    <qos-mode>
    <police>
    <config>
      <police-type>none</police-type> <!-- operation="delete"-->
      <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
      <eir>1</eir> <!-- operation="delete"-->
      <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
      <be>1</be> <!-- operation="delete"-->
      <be-unit>none</be-unit> <!-- operation="delete"-->
      <cir>1</cir> <!-- operation="delete"-->
    </config>
  </police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
percent <1-100> be <1-4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
    <config>
      <police-type>none</police-type> <!-- operation="delete"-->
      <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
      <bc>1</bc> <!-- operation="delete"-->
      <bc-unit>none</bc-unit> <!-- operation="delete"-->
      <be>1</be> <!-- operation="delete"-->
      <be-unit>none</be-unit> <!-- operation="delete"-->
      <cir>1</cir> <!-- operation="delete"-->
    </config>
  </police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          </config>
          <qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <bc>1</bc> <!-- operation="delete"-->
                <bc-unit>none</bc-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </qos-mode>
        </class>
      </classes>
    </policy-map>
  </global>
</qos>
```



```

</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2000000000> (kbps|mbps|gbps) bc <1-
4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <type>qos</type>
  <config>
    <type>qos</type>
    <policy-map-name>NAME</policy-map-name>
  </config>
  <policy-map-name>NAME</policy-map-name>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <police>
  <config>
    <police-type>none</police-type> <!-- operation="delete"-->
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <be>1</be> <!-- operation="delete"-->
  </config>
  </police>
  </qos-mode>
  </class>
</policy-map>
</policy-maps>
</global>
</qos>

```

```

        <be-unit>none</be-unit> <!-- operation="delete"-->
        <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) be <1-
4161> (kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          < qos-mode>
            <police>
              <config>
                <police-type>none</police-type> <!-- operation="delete"-->
                <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
                <eir>1</eir> <!-- operation="delete"-->
                <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
                <bc>1</bc> <!-- operation="delete"-->
                <bc-unit>none</bc-unit> <!-- operation="delete"-->
                <be>1</be> <!-- operation="delete"-->
                <be-unit>none</be-unit> <!-- operation="delete"-->
                <cir>1</cir> <!-- operation="delete"-->
              </config>
            </police>
          </ qos-mode>
        </class>
      </classes>
    </policy-map>
  </policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
200000000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
(kbytes|mbytes|ms|us)

```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <qos-mode>
          <police>
            <config>
              <police-type>none</police-type> <!-- operation="delete"-->
              <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
              <eir>1</eir> <!-- operation="delete"-->
            </config>
          </police>
        </qos-mode>
      </class>
    </classes>
  </global>
</qos>
```

```

        <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
        <bc>1</bc> <!-- operation="delete"-->
        <bc-unit>none</bc-unit> <!-- operation="delete"-->
        <be>1</be> <!-- operation="delete"-->
        <be-unit>none</be-unit> <!-- operation="delete"-->
        <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```

police ((colour-blind|colour-aware)|) cir <1-2000000000> (kbps|mbps|gbps) eir
percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
(kbytes|mbytes|ms|us)

```

Configure copp cir unit

Use this attribute to set the Committed Information rate unit in kbps,mbps or gbps for copp police

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: copp-cir-unit

Attribute Type: enum (kbps|mbps|gbps)

Attribute Name: copp-police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: copp-cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <type>qos</type>
        <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
        </config>
        <policy-map-name>NAME</policy-map-name>
      </policy-map>
    </policy-maps>
  </global>
  <class>
    <class-map-name>NAME</class-map-name>
  </class>
</qos>

```

```

<config>
  <class-map-name>NAME</class-map-name>
</config>
<copp-mode>
<police>
<config>
  <copp-police-type>none</copp-police-type> <!-- operation="delete"-->
  <copp-cir>1</copp-cir> <!-- operation="delete"-->
  <copp-cir-unit>kbps</copp-cir-unit> <!-- operation="delete"-->
</config>
</police>
</copp-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps)
```

Configure enabled

Use this attribute to enable QoS statistics

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<statistics>
<config>
  </enabled><!-- operation="delete"-->
</config>
</statistics>
</global>
</qos>

```

Command Syntax

```
qos statistics
```

Configure disabled

Use this attribute to disable red packet drop in the system. Red packets are dropped in the system by default to achieve ingress rate limiting via policer and storm control. However, this command is used when there is no use-case for rate limiting traffic and red packets need to be allowed in the system

Attribute Name: disabled

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <red-drop>
      <config>
        </disabled><!-- operation="delete"-->
      </config>
    </red-drop>
  </global>
</qos>
```

Command Syntax

```
qos red-drop-disable
```

Configure copp-service-policy policy-map-name

Use this attribute to set.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <copp-service-policy>
      <config>
        <policy-map-name>NAME</policy-map-name> <!-- operation="delete"-->
      </config>
    </copp-service-policy>
  </global>
</qos>
```

Command Syntax

```
copp service-policy NAME
```

clear qos statistics (interface IFNAME|) ((type qos|type qos input|type qos output|type queuing|type copp|type all|))

Attribute Name: interface-name

Attribute Type: string

Default Value: NULL

Attribute Name: type

Attribute Type: enum (type qos|type qos input|type qos output|type queuing|type copp|type all)

Default Value: type all

Netconf RPC payload

```
<qos-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interface-name>IFNAME</interface-name>
  <type>type all</type>
</qos-clear-statistics>
```

Command Syntax

```
clear qos statistics (interface IFNAME|) ((type qos|type qos input|type qos
output|type queuing|type copp|type all)|)
```

IPI-QOS-IF

Configure lag shaper unit

Use this command to enable/disable lag shaper

Attribute Name: lag-shaper-unit

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: lag-shaper

Attribute Type: enum (unified)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        <lag-shaper>unified</lag-shaper> <!-- operation="delete"-->
      </config>
      <lag-shaper-unit>0</lag-shaper-unit> <!-- operation="delete"-->
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
lag-shaper (unified) (unit <0-1>|)
```

Configure untagged priority

Use this attribute to set internal priority for untagged traffic on L2 interface

Attribute Name: untagged-priority

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <untagged-priority>0</untagged-priority> <!-- operation="delete"-->
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
qos untagged-priority <0-7>
```

Configure trust dscp

Use this command to classify the ingress traffic based on DSCP map on L2 interface

Attribute Name: trust-dscp

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </trust-dscp><!-- operation="delete"-->
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
trust dscp
```

Configure cos

Use this command to enable/disable remarking of CoS set by the egress map

Attribute Name: cos

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <remark>
  <config>
    <cos>disable</cos> <!-- operation="delete"-->
  </config>
</remark>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos remark cos (disable|enable)
```

Configure inner cos

Remarking of CoS for inner-vlan(applys for inner-vlan updated by rewrite)

Attribute Name: inner-cos

Attribute Type: empty

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <remark>
  <config>
    </inner-cos><!-- operation="delete"-->
  </config>
</remark>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos remark inner-cos
```

Configure dscp

Use this command to enable/disable remarking of DSCP set by the egress map

Attribute Name: dscp

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <remark>
    <config>
      <dscp>disable</dscp> <!-- operation="delete"-->
    </config>
  </remark>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos remark dscp (disable|enable)
```

Configure name

Interface name for which QoS is being configured

Attribute Name: name

Attribute Type: string

Attribute Name: rate

Attribute Type: uint64

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface> <!-- operation="delete"-->
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <traffic-shape>
    <config>
      <rate>1</rate>
      <rate-unit>kbps</rate-unit>
    </config>
  </traffic-shape>
</interface>
```

```
</interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps)
```

Configure rate

Interface name for which QoS is being configured

Attribute Name: name

Attribute Type: string

Attribute Name: rate

Attribute Type: uint64

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface> <!-- operation="delete"-->
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <traffic-shape>
    <config>
      <rate>1</rate>
      <rate-unit>kbps</rate-unit>
    </config>
  </traffic-shape>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps)
```

Configure cos to queue

Use this attribute to attach a CoS to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: cos-to-queue

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```

<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <map-profile>
  <config>
    <cos-to-queue>NAME</cos-to-queue> <!-- operation="delete"-->
  </config>
</map-profile>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos map-profile cos-to-queue NAME
```

Configure dscp to dscp

Use this attribute to attach a DSCP to DSCP profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: dscp-to-dscp

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <map-profile>
  <config>
    <dscp-to-dscp>NAME</dscp-to-dscp> <!-- operation="delete"-->
  </config>
</map-profile>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos map-profile dscp-to-dscp NAME
```

Configure precedence to precedence

Use this attribute to attach a Precedence to Precedence profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: precedence-to-precedence

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <map-profile>
        <config>
          <precedence-to-precedence>NAME</precedence-to-precedence> <!--
operation="delete"-->
        </config>
      </map-profile>
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
qos map-profile precedence-to-precedence NAME
```

Configure dscp to queue

Use this attribute to attach a DSCP to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: dscp-to-queue

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <map-profile>
        <config>
          <dscp-to-queue>NAME</dscp-to-queue> <!-- operation="delete"-->
        </config>
      </map-profile>
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
qos map-profile dscp-to-queue NAME
```

Configure precedence to queue

Use this attribute to attach a Precedence to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: precedence-to-queue

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <map-profile>
  <config>
    <precedence-to-queue>NAME</precedence-to-queue> <!-- operation="delete"-->
  </config>
</map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos map-profile precedence-to-queue NAME
```

Configure queue color to cos

Use this attribute to attach a Traffic-Class color to CoS profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-color-to-cos

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <map-profile>
```

```

    <config>
      <queue-color-to-cos>NAME</queue-color-to-cos> <!-- operation="delete"-->
    </config>
  </map-profile>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos map-profile queue-color-to-cos NAME
```

Configure queue to exp

Use this attribute to attach a Traffic-Class to exp profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-to-exp

Attribute Type: string

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <map-profile>
        <config>
          <queue-to-exp>NAME</queue-to-exp> <!-- operation="delete"-->
        </config>
      </map-profile>
    </interface>
  </interfaces>
</qos>

```

Command Syntax

```
qos map-profile queue-to-exp NAME
```

Configure egress dynamic ecn

Use this attribute to attach an egress dynamic ECN profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: egress-dynamic-ecn

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <map-profile>
    <config>
      <egress-dynamic-ecn>NAME</egress-dynamic-ecn> <!-- operation="delete"-->
    </config>
  </map-profile>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
qos map-profile egress-dynamic-ecn NAME
```

Configure type qos policy map name

Use this attribute to attach a service-policy of type qos to the interface

Attribute Name: type-qos-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <service-policy>
    <ingress>
      <config>
        <type-qos-policy-map-name>NAME</type-qos-policy-map-name> <!--
operation="delete"-->
      </config>
    </ingress>
  </service-policy>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
service-policy type qos input NAME
```

Configure egress type-qos-policy-map-name

Use this attribute to attach a service-policy of type qos to the interface

Attribute Name: type-qos-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <service-policy>
        <egress>
          <config>
            <type-qos-policy-map-name>NAME</type-qos-policy-map-name> <!--
operation="delete"-->
          </config>
        </egress>
      </service-policy>
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
service-policy type qos output NAME
```

Configure type queuing policy map name

Use this attribute to attach a service-policy of type queue to the interface

Attribute Name: type-queuing-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <service-policy>
        <egress>
```

```

    <config>
      <type-queuing-policy-map-name>NAME</type-queuing-policy-map-name> <!--
operation="delete"-->
    </config>
  </egress>
</service-policy>
</interface>
</interfaces>
</qos>

```

Command Syntax

```
service-policy type queuing output NAME
```

IPI-RSVP

Configure options

Use this attribute to enable all debugging options for an RSVP daemon. Enable RSVP debugs at configuration mode

Attribute Name: options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <debug>
    <config>
      <options>events</options> <!-- operation="delete"-->
    </config>
  </debug>
</rsvp-te>

```

Command Syntax

```

debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
transit|all|)

```

Configure enable rsvp trap

Use this attribute to enable/disable the rsvp trap

Attribute Name: enable-rsvp-trap

Attribute Type: uint8

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <snmp-configuration>
    <config>

```

```
</enable-rsvp-trap><!-- operation="delete"-->
</config>
</snmp-configuration>
</rsvp-te>
```

Command Syntax

```
rsvp-trap enable
```

Configure disable refresh resv parsing

Use this attribute to disable parsing of Refresh RESV messages received from upstream nodes. Use this attribute to minimize message processing by RSVP when you are sure that a particular router does not need to parse Refresh RESV messages to check for changes because LSPs passing through this router are not required to be updated simultaneously.

Attribute Name: disable-refresh-resv-parsing

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </disable-refresh-resv-parsing><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-resv-parsing
```

Configure disable refresh path parsing

Use this attribute to disable parsing of Refresh PATH messages received from upstream nodes. Use this attribute to minimize message processing by RSVP when you are sure that a particular router does not need to parse Refresh-PATH messages to check for changes, because LSPs passing through this router are not required to be updated simultaneously.

Attribute Name: disable-refresh-path-parsing

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </disable-refresh-path-parsing><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-path-parsing
```

Configure disable loop detection

Use this attribute to turn on loop detection for Path and Reservation messages exchanged between LSRs

Attribute Name: disable-loop-detection

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </disable-loop-detection><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no loop-detection
```

Configure enable php

Use this attribute to enable Penultimate-Hop-Popping for the router. An egress router sends either the implicit-null or the explicit-null label for LSPs. If the no-php command has been enabled, the egress router sends non-reserved labels (those labels in the label pool range allotted to RSVP) to the upstream router.

Attribute Name: enable-php

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </enable-php><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
php
```

Configure enable entropy label capability

Use this attribute to enable Entropy Label Capability (ELC) for the router. An egress router may insert ELC TLV in Attributes Flags TLV of Resv message. If no entropy-label-capability command has been enabled, the egress router doesn't include ELC TLV in Resv message.

Attribute Name: enable-entropy-label-capability

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </enable-entropy-label-capability><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

entropy-label-capability

Configure enable bundle send

Use this attribute to enable sending of BUNDLE messages for all the interfaces.

Attribute Name: enable-bundle-send

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      </enable-bundle-send><!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

bundle-send

Configure enable explicit null

Use this attribute to send explicit-null labels for directly-connected forwarding equivalence classes (FECs) instead of implicit-null labels. This command controls the label value advertised to an egress router of an LSP. By default, implicit null label (label 3) is advertised for directly connected FECs. If implicit-null label is advertised, the penultimate hop removes the label and sends the packet as a plain IP packet to the egress router. The explicit-null command advertises label 0 and retains the label so the egress router can pop it. For details about usage of explicit-null, please refer to RFC 3032. Use the no parameter with this command to stop sending explicit-null labels for directly-connected FECs and resume sending implicit-null labels.

Attribute Name: enable-explicit-null

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
```

```

    </enable-explicit-null><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
explicit-null
```

Configure on boot adjust multiplier

Use this attribute to specify the adjust multiplier for an RSVP auto bandwidth on-boot profile

Attribute Name: on-boot-adjust-multiplier

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-10

Attribute Name: on-boot-sample-interval

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-10080

Attribute Name: on-boot-adjust-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 5-10080

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      <on-boot-sample-interval>1</on-boot-sample-interval> <!-- operation="delete"-->
      <on-boot-adjust-interval>5</on-boot-adjust-interval> <!-- operation="delete"-->
      <on-boot-adjust-multiplier>1</on-boot-adjust-multiplier> <!--
operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>

```

Command Syntax

```
auto-bandwidth-on-boot <1-10080> <5-10080> <1-10>
```

Configure rsvp

Use this attribute to enter router mode from configure mode and to enable the RSVP daemon, if it is not already enabled and Enter in to router rsvp mode from configure mode

Attribute Name: rsvp

Attribute Type: enum (rsvp)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      <rsvp>rsvp</rsvp>
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
router (rsvp)
```

Configure revert timer

Use this attribute to Hold-on timer before revert back to primary session

Attribute Name: revert-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <config>
      <revert-timer>1</revert-timer> <!-- operation="delete"-->
    </config>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
revert-timer <1-65535>
```

Configure session state timeout

Use this attribute to configure the maximum time a session can wait in a few transitory states for the acknowledgement or event to change the state. By default, the timeout value is 5 minutes. If no ack or event received within this period, session will timeout and proceed with release.

Attribute Name: session-state-timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 5-60

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
```



```

<rsvp-instance>
<config>
  <session-state-timeout>5</session-state-timeout> <!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
session-state-timeout <5-60>
```

Configure ingress

Use this attribute to specify a .from. IPv4 address for the RSVP daemon. This command can be invoked from either the router rsvp mode or from the rsvp-trunk mode. In the RSVP router mode, this command defines the source address as an IPv4 packet sent out by the RSVP daemon. In the RSVP trunk mode, this command indicates a sender.s address in the sender template object that is used in path messages.

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
  <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
from A.B.C.D
```

Configure enable message ack

Use this attribute to enable message acknowledgement for all messages being sent to neighbors that are known to support refresh reduction.

Attribute Name: enable-message-ack

Attribute Type: uint8

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
  </enable-message-ack><!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
message-ack
```

Configure disable refresh reduction

Use this attribute to enable refresh reduction capability advertisement for all interfaces

Attribute Name: disable-refresh-reduction

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <route-refresh>
      <config>
        </disable-refresh-reduction><!-- operation="delete"-->
      </config>
    </route-refresh>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-reduction
```

Configure ack send timer

Use this attribute to configure the timer for sending acknowledgement for all RSVP-TE neighbors. By default, timer is disabled.

Attribute Name: ack-send-timer

Attribute Type: uint16

Attribute Range: 1-5

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <route-refresh>
      <config>
        <ack-send-timer>1</ack-send-timer> <!-- operation="delete"-->
      </config>
    </route-refresh>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
ack-send-timer <1-5>
```

Configure ack wait timeout

Use this attribute to configure the acknowledgement wait timeout for all RSVP-TE neighbors

Attribute Name: ack-wait-timeout

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <route-refresh>
      <config>
        <ack-wait-timeout>1</ack-wait-timeout> <!-- operation="delete"-->
      </config>
    </route-refresh>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
ack-wait-timeout <1-65535>
```

Configure refresh time

Use this attribute to configure RSVP refresh interval timer. The timer specifies the interval after which Path and/ or Reservation Request (Resv) messages will be sent out. The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid Reservation Lifetime for an LSP. Refresh time regulates the interval between Refresh messages which include Path and Reservation Request (Resv) messages. Refresh messages are sent periodically so that reservation does not timeout in the neighboring nodes. Each sender and receiver host sends Path and Resv messages, downstream and upstream respectively, along the paths.

Attribute Name: refresh-time

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <route-refresh>
      <config>
        <refresh-time>1</refresh-time> <!-- operation="delete"-->
      </config>
    </route-refresh>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
refresh-time <1-65535>
```

Configure keep multiplier

Use this attribute to configure the constant to be used to calculate a valid reservation lifetime for a Labeled Switched Path (LSP). The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid reservation lifetime for an LSP. The router sends refresh messages periodically so that the neighbors do not timeout

Attribute Name: keep-multiplier

Attribute Type: int32

Default Value: 3

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <route-refresh>
      <config>
        <keep-multiplier>1</keep-multiplier> <!-- operation="delete"-->
      </config>
    </route-refresh>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
keep-multiplier <1-255>
```

Configure detour allow primary upstream path

Use this attribute to ensure detour formation allowed to consider upstream path of primary, a deviation to RFC 4090 section 6.2 recommendation. This attribute intended to be used on special case where detour protection required on ring topology with no additional alternate path available.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: detour-allow-primary-upstream-path

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <config>
        <detour-allow-primary-upstream-path><!-- operation="delete"-->
      </config>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
detour-allow-primary-upstream-path
```

Configure default frr protection

Use this attribute to set default FRR protection mechanism to trigger when local protection requested by protection mechanism not mentioned via FRR object. When FRR object explicitly requests for the protection type, this attribute will not come into picture. Default will be one-to-one protection.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: default-frr-protection

Attribute Type: enum (one-to-one|facility)

Default Value: one-to-one

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <config>
        <default-frr-protection>one-to-one</default-frr-protection> <!--
operation="delete"-->
      </config>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
default-frr-protection (one-to-one|facility)
```

Configure preemption type

Use this attribute to set preemption type for an LSP for the router. Preemption of an LSP or set of LSPs happens based on bandwidth constraints like preempting an LSP cause less number of LSPs be preempted upon satisfying the bandwidth required, preempting an LSP or set of LSPs which results in an LSP having less unused(remaining) bandwidth.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: preemption-type

Attribute Type: enum (less-lsp-preempted|less-unused-bandwidth)

Default Value: less-lsp-preempted

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <config>
        <preemption-type>less-lsp-preempted</preemption-type> <!-- operation="delete"-->
      </config>
    </fast-reroute>
```

```
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
preemption-type (less-lsp-preempted|less-unused-bandwidth)
```

Configure bypass lsp addr query interval

Modify interval of bypass trunk querying LSP address

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bypass-lsp-addr-query-interval

Attribute Type: uint8

Default Value: 60

Attribute Range: 10-60

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <config>
        <bypass-lsp-addr-query-interval>10</bypass-lsp-addr-query-interval> <!--
operation="delete"-->
      </config>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
bypass-lsp-addr-query-interval <10-60>
```

Configure detour id

Use this attribute to set a path-specific detour LSP identification method, using the detour object.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: detour-id

Attribute Type: enum (sender-template|path)

Default Value: path

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <config>
        <detour-id>path</detour-id> <!-- operation="delete"-->
      </config>
    </fast-reroute>
```

```
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
detour-identification (sender-template|path)
```

Configure auto bypass

Auto bypass configuration

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: auto-bypass

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <config>
          </auto-bypass>
        </config>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
auto-bypass
```

Configure enable

Use this attribute to enable automatic formation of bypass tunnels when facility backup protected sessions come up.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <config>
          <enable><!-- operation="delete"-->
        </config>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
```

```
</rsvp-te>
```

Command Syntax

```
enable
```

Configure inactivity timer

Use this attribute to configure timer for auto bypass tunnel inactivity period post which stale auto bypass tunnels will be deleted.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: inactivity-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-240

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <config>
          <inactivity-timer>1</inactivity-timer> <!-- operation="delete"-->
        </config>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
inactivity-timer <1-240>
```

Configure type

Use this attribute to configure a set of attributes for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: type

Attribute Type: enum (best-effort)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute> <!-- operation="delete"-->
            <type>best-effort</type>
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```



```

    <config>
      <type>best-effort</type>
    </config>
  </attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
attributes (best-effort)
```

Configure protection capability

Use this attribute to configure the type of auto bypass tunnel allowed to create. Node option will ensure both link and node protection bypass tunnels created when there is demand and this option is enabled by default. Link option will restrict the bypass tunnel formation to link protection type even when there is demand.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: protection-capability

Attribute Type: enum (link|node)

Default Value: node

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
          <config>
            <type>best-effort</type>
          </config>
          <protection-capability>node</protection-capability> <!-- operation="delete"-->
        </attribute>
      </attributes>
    </auto-bypass>
  </fast-reroute>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
protection-capability (link|node)
```

Configure bandwidth

Use this attribute to set the bandwidth requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
            <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure setup priority

Use this attribute to configure the setup priority requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
            <setup-priority>0</setup-priority> <!-- operation="delete"-->
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

```

</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
setup-priority <0-7>
```

Configure hold priority

Use this attribute to configure the hold priority requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
            <hold-priority>0</hold-priority> <!-- operation="delete"-->
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>

```

Command Syntax

```
hold-priority <0-7>
```

Configure hop limit

Use this attribute to configure the hop limit requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
            <hop-limit>1</hop-limit> <!-- operation="delete"-->
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hop-limit <1-255>
```

Configure reoptimize

Use this attribute to enable re-optimization for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: reoptimize

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
            </reoptimize><!-- operation="delete"-->
          </attribute>
        </attributes>
      </auto-bypass>
    </fast-reroute>
  </rsvp-instance>
</rsvp-te>
```

```

</fast-reroute>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
reoptimize
```

Configure address

This attribute is used to configure auto bypass with exclude address criteria

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: exclude-type

Attribute Type: enum (link|node)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <fast-reroute>
      <auto-bypass>
        <attributes>
          <attribute>
            <type>best-effort</type>
            <config>
              <type>best-effort</type>
            </config>
          <exclude-addresses>
            <exclude-address>
              <address>A.B.C.D</address>
              <config>
                <address>A.B.C.D</address>
                <exclude-type>link</exclude-type> <!-- operation="delete"-->
              </config>
            </exclude-address>
          </exclude-addresses>
        </attribute>
      </attributes>
    </auto-bypass>
  </fast-reroute>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
exclude-address (link|node) A.B.C.D
```

Configure disable cspf

Use this attribute to disable the use of the Constrained Shortest Path First (CSPF) server for all RSVP sessions. Disable CSPF when no nodes support the required traffic engineering extensions. When this command is executed in Router mode, CSPF is enabled for all configured RSVP sessions, and all RSVP sessions configured from this point forward. If the default CSPF per RSVP session is enabled, it will be disabled. The CSPF status for RSVP sessions can be verified using the show rsvp session command with the detail option

This command is supported when following feature are enabled CSPF feature

Attribute Name: disable-cspf

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <cspf>
      <config>
        </disable-cspf><!-- operation="delete"-->
      </config>
    </cspf>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no cspf
```

Configure cspf lsp reoptimization time

Use this attribute to configure timer for the reoptimizing lsp.

This command is supported when following feature are enabled CSPF feature

Attribute Name: cspf-lsp-reoptimization-time

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-240

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <cspf>
      <config>
        <cspf-lsp-reoptimization-time>1</cspf-lsp-reoptimization-time> <!--
operation="delete"-->
      </config>
    </cspf>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
lsp-reoptimization-timer <1-240>
```

Configure enable hello receipt

Use this attribute to enable the receipt of Hello messages from peers.

Attribute Name: enable-hello-receipt

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <hellos>
        <config>
          </enable-hello-receipt><!-- operation="delete"-->
        </config>
      </hellos>
    </global>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-receipt
```

Configure hello interval

Use this attribute to set an interval between Hello packets.Used as a global command, this value is over-ridden by the hello-interval set on the interface (see rsvp hello-interval).For optimum performance, set this value no more than one-third of the hello-timeout value.

Attribute Name: hello-interval

Attribute Type: int32

Default Value: 2

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <hellos>
        <config>
          <hello-interval>1</hello-interval> <!-- operation="delete"-->
        </config>
      </hellos>
    </global>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-interval <1-65535>
```

Configure hello timeout

Timeout for clearing up all sessions shared with a neighbor. If an LSR has not received a Hello message from a peer within the number of seconds set with this command, all sessions shared with this peer are reset. The hello-timeout determines how long an RSVP node waits for a hello message before declaring a neighbor to be down.

Attribute Name: hello-timeout

Attribute Type: int32

Default Value: 7

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <hellos>
        <config>
          <hello-timeout>1</hello-timeout> <!-- operation="delete"-->
        </config>
      </hellos>
    </global>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-timeout <1-65535>
```

Configure enable graceful restart

Use this attribute to enable RSVP-TE Graceful Restart capability on a router. This is a global parameter. RSVP-TE determines whether or not to send the graceful restart capability object in its hello message. However, this capability also depends on support for graceful restart on the neighbor router.

This command is supported when following feature are enabled grst feature

Attribute Name: enable-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <graceful-restart>
        <config>
          </enable-graceful-restart>
        </config>
      </graceful-restart>
    </global>
  </rsvp-instance>
</rsvp-te>
```



```
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart
```

Configure restart time

Use this attribute to set a restart time for an RSVP-TE graceful restart configuration.

This command is supported when following feature are enabled grst feature

Attribute Name: restart-time

Attribute Type: uint32

Default Value: 180000

Attribute Range: 10000-600000

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <graceful-restart>
        <config>
          <restart-time>10000</restart-time> <!-- operation="delete"-->
        </config>
      </graceful-restart>
    </global>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart restart-time <10000-600000>
```

Configure recovery time

Use this attribute to set a recovery time for an RSVP-TE graceful restart configuration.

This command is supported when following feature are enabled grst feature

Attribute Name: recovery-time

Attribute Type: uint32

Default Value: 360000

Attribute Range: 60000-3600000

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <global>
      <graceful-restart>
```

```
<config>
  <recovery-time>60000</recovery-time> <!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart recovery-time <60000-3600000>
```

Configure srlg disjoint

Use the attribute to configure the srlg-disjoint path-protection in global mode

This command is supported when following feature are enabled Shared Risk Link Groups feature

Attribute Name: srlg-disjoint

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <srlg>
      <config>
        <srlg-disjoint>forced</srlg-disjoint> <!-- operation="delete"-->
      </config>
    </srlg>
  </rsvp-instance>
</rsvp-te>
```

Command Syntax

```
srlg-disjoint (forced|preferred)
```

Configure neighbors address

Directly connected neighbor

Attribute Name: address

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-instance>
    <neighbors>
      <neighbor> <!-- operation="delete"-->
        <address>CML_IP_ADDR_T</address>
      </neighbor>
    </neighbors>
  </rsvp-instance>
</rsvp-te>
```

```

</neighbor>
</neighbors>
</rsvp-instance>
</rsvp-te>

```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X)
```

clear rsvp statistics

Netconf RPC payload

```
<clear-rsvp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
clear rsvp statistics
```

snmp restart rsvp

Netconf RPC payload

```
<rsvp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
snmp restart rsvp
```

debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all)

Netconf RPC payload

```

<rsvp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <terminal-debug-options>events</terminal-debug-options>
</rsvp-terminal-debug-on>

```

Command Syntax

```

debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
transit|all|)

```

no debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all|)

Netconf RPC payload

```
<rsvp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <terminal-debug-options>events</terminal-debug-options>
</rsvp-terminal-debug-off>
```

Command Syntax

```
no debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
transit|all|)
```

restart rsvp graceful

Netconf RPC payload

```
<restart-rsvp-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
restart rsvp graceful
```

IPI-RSVP-TRUNK

Configure path name

Use this attribute to configure the path

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: path-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: path-type

Attribute Type: enum (mpls)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-paths>
    <rsvp-path>
      <path-name>PATHNAME</path-name>
    </rsvp-path>
  </rsvp-paths>
</rsvp-te>
```

```

        <path-name>PATHNAME</path-name>
        <path-type>mpls</path-type>
    </config>
</rsvp-path>
</rsvp-paths>
</rsvp-te>

```

Command Syntax

```
rsvp-path PATHNAME (mpls|)
```

Configure description

Use this attribute to add description for rsvp path

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-paths>
    <rsvp-path>
      <path-name>PATHNAME</path-name>
      <config>
        <path-name>PATHNAME</path-name>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </rsvp-path>
  </rsvp-paths>
</rsvp-te>

```

Command Syntax

```
description LINE
```

Configure hop address

Use this attribute to define an explicit IPv4 or IPv6 route sub-object as either loose or strict hop. A list of sub-objects specifies an explicit route to the egress router for an LSP

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: hop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-paths>
    <rsvp-path>
      <path-name>PATHNAME</path-name>

```

```

<config>
  <path-name>PATHNAME</path-name>
</config>
<explicit-route-object>
<mpls-hops>
<mpls-hop> <!-- operation="delete"-->
  <hop-type>loose</hop-type>
  <config>
    <hop-type>loose</hop-type>
    <hop-address>A.B.C.D</hop-address>
  </config>
  <hop-address>A.B.C.D</hop-address>
</mpls-hop>
</mpls-hops>
</explicit-route-object>
</rsvp-path>
</rsvp-paths>
</rsvp-te>

```

Command Syntax

```
A.B.C.D (loose|strict)
```

Configure multipath name

Use this attribute to create the multipath group name

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: multipath-name

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<multipaths>
<multipath>
  <multipath-name>GROUPNAME</multipath-name>
  <config>
    <multipath-name>GROUPNAME</multipath-name>
  </config>
</multipath>
</multipaths>
</rsvp-te>

```

Command Syntax

```
rsvp-multipath GROUPNAME
```

Configure multipath description

Use this attribute to add description for multipath group

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <multipaths>
    <multipath>
      <multipath-name>GROUPNAME</multipath-name>
      <config>
        <multipath-name>GROUPNAME</multipath-name>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </multipath>
  </multipaths>
</rsvp-te>
```

Command Syntax

```
description LINE
```

Configure destination

Use this attribute to add destination prefix for multipath group

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: destination

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <multipaths>
    <multipath>
      <multipath-name>GROUPNAME</multipath-name>
      <config>
        <multipath-name>GROUPNAME</multipath-name>
        <destination>A.B.C.D</destination> <!-- operation="delete"-->
      </config>
    </multipath>
  </multipaths>
</rsvp-te>
```

Command Syntax

```
to A.B.C.D
```

Configure bypass name

rsvp trunk bypass name

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bypass-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
rsvp-bypass BYPASSNAME
```

Configure ingress

Use this attribute to specify a from IPv4 address for the RSVP daemon. In the RSVP trunk mode, this command indicates a sender's address in the sender template object that is used in path messages.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
          <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
from A.B.C.D
```


Configure egress

Use this attribute to specify an IPv4 egress for an LSP. When configuring an LSP, you must specify the address of the egress router by using this command in the trunk node. An egress definition is a mandatory attribute; no RSVP session is created when an egress is not defined.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
        <egress>A.B.C.D</egress> <!-- operation="delete"-->
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
to A.B.C.D
```

Configure ext tunnel id

Use this attribute to configure an extended-tunnel identifier as an IPv4/IPv6 address. These identifiers are used in RSVP messages. If no extended-tunnel ID is specified, the LSR-ID for the router is used as the extended-tunnel ID for all LSPs. The extended-tunnel ID is a simple way of identifying all LSPs belonging to the same trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: ext-tunnel-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
        <ext-tunnel-id>A.B.C.D</ext-tunnel-id> <!-- operation="delete"-->
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

```
</trunks>
</rsvp-te>
```

Command Syntax

```
ext-tunnel-id A.B.C.D
```

Configure update type

Use this attribute to change the method of updating attributes for sessions (primary/ secondary) for this trunk as either make-before-break (default) or break-before-make

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: update-type

Attribute Type: enum (break-before-make|make-before-break)

Default Value: make-before-break

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
        <update-type>make-before-break</update-type> <!-- operation="delete"-->
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
update-type (break-before-make|make-before-break)
```

Configure bypass-trunk description

Use this attribute to add description for rsvp tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
```

```

    <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
    <description>LINE</description> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
description LINE
```

Configure enable reoptimize

Use this attribute to enable the reoptimization for the RSVP tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-reoptimize

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
      <config>
        <bypass-name>BYPASSNAME</bypass-name>
      </config>
      </enable-reoptimize><!-- operation="delete"-->
    </bypass-trunk>
  </bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
reoptimize
```

Configure shutdown

Use this attribute to administratively shutdown the RSVP tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">

```

```

<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
  </shutdown><!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

shutdown

Configure backup bandwidth type

rsvp bypass trunk backup bandwidth type

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: backup-bandwidth-type

Attribute Type: enum (best-effort|dedicated)

Default Value: best-effort

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
  <backup-bandwidth-type>best-effort</backup-bandwidth-type> <!--
operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

backup-bw-type (best-effort|dedicated)

Configure disable route record

Use this attribute to enable recording of the route taken by Path and Reservation Request (Resv) messages. These messages confirm the establishment of reservations and also identifies errors. Routes are recorded by means of the Route Record Object (RRO) in the RSVP message.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: disable-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
no record
```

Configure enable reuse route record

Use this attribute to use the updated Route Record List as an Explicit Route (with all strict nodes) when a path message is sent out at the next refresh.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-reuse-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>
```

```

</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
reuse-route-record
```

Configure traffic type

Use this attribute to identify the traffic type for this RSVP Trunk/bypss/P2MP LSP's

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: traffic-type

Attribute Type: enum (controlled-load|guaranteed)

Default Value: controlled-load

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
  <session>
    <config>
      <traffic-type>controlled-load</traffic-type> <!-- operation="delete"-->
    </config>
  </session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
traffic (controlled-load|guaranteed)
```

Configure retry count

Use this attribute to specify a retry count for an RSVP Trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
retry-limit <1-65535>
```

Configure retry interval

Use this attribute to specify a retry interval for an RSVP Trunk. When an ingress node tries to configure an LSP and the setup fails due to the receipt of a Path Error message, the system waits for the time configured with this command, before retrying the LSP setup process

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>

```

```

</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
retry-timer <1-600>
```

Configure cspf retry count

Use this attribute to specify the number of retries that CSPF should carry out for a request received from RSVP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: cspf-retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
</bypass-trunk>
</trunks>
</rsvp-te>

```

Command Syntax

```
cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Use this attribute to specify the time between each retry that CSPF might carry out for a request received from RSVP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
cspf-retry-timer <1-600>
```

Configure exclude addr

Use this attribute to exclude an address link or address node from the LSP creation of the Bypass Tunnel.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: exclude-addr

Attribute Type: inet:ipv4-address

Attribute Name: exclude-type

Attribute Type: enum (link|node)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

```

</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
exclude-address (link|node) A.B.C.D
```

Configure path-state-block path-name

Use this attribute to specify an RSVP path to be used. The PATHNAME in this command is the string (name) used to identify an RSVP path defined for the node

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: path-name

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
</session>
<path-state-block>
<config>
  <path-name>PATHNAME</path-name> <!-- operation="delete"-->
</config>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
path PATHNAME
```

Configure enable label record

Use this attribute to record all labels exchanged between RSVP-enabled routers during the reservation setup process

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
label-record
```

Configure hold priority

Use this attribute to configure the hold priority value for the selected trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
</rsvp-te>

```

```

        <hold-priority>0</hold-priority> <!-- operation="delete"-->
    </config>
</session-attributes>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
hold-priority <0-7>
```

Configure setup priority

Use this attribute to configure the setup priority value for the selected trunk

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
      <config>
        <bypass-name>BYPASSNAME</bypass-name>
      </config>
    </session>
    <path-state-block>
      <session-attributes>
        <config>
          <setup-priority>0</setup-priority> <!-- operation="delete"-->
        </config>
      </session-attributes>
    </path-state-block>
  </session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
setup-priority <0-7>
```

Configure hop limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
    <session>
      <path-state-block>
        <session-attributes>
          <config>
            <hop-limit>1</hop-limit> <!-- operation="delete"-->
          </config>
        </session-attributes>
      </path-state-block>
    </session>
  </trunks>
</rsvp-te>
```

Command Syntax

```
hop-limit <1-255>
```

Configure filter type

Use this attribute to set the filter to fixed or shared filter style for RSVP trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: filter-type

Attribute Type: enum (fixed|shared-explicit)

Default Value: shared-explicit

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
```

```

<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
  <session>
    <path-state-block>
    <session-attributes>
    <config>
      <filter-type>shared-explicit</filter-type> <!-- operation="delete"-->
    </config>
  </session-attributes>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

filter (fixed)

Configure bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
  <bypass-name>BYPASSNAME</bypass-name>
  <config>
    <bypass-name>BYPASSNAME</bypass-name>
  </config>
  <session>
    <path-state-block>
    <session-attributes>
    <config>
      <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
    </config>
  </session-attributes>
</path-state-block>
</session>
</bypass-trunk>

```

```

</bypass-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure dscp exp map exp val

rsvp trunk dsinfo exp val

This command is supported when following feature are enabled MPLS-FRR feature,diffserv feature

Attribute Name: dscp-exp-map-exp-val

Attribute Type: int32

Attribute Range: 0-7

Attribute Name: dscp-exp-map-class-name

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <bypass-trunks>
      <bypass-trunk>
        <bypass-name>BYPASSNAME</bypass-name>
        <config>
          <bypass-name>BYPASSNAME</bypass-name>
        </config>
      </bypass-trunk>
    </bypass-trunks>
  </trunks>
  <diff-serv-info>
    <dscp-exp-maps>
      <dscp-exp-map>
        <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
        <config>
          <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
          <dscp-exp-map-class-name>CLASS</dscp-exp-map-class-name>
        </config>
      </dscp-exp-map>
    </dscp-exp-maps>
  </diff-serv-info>
</rsvp-te>

```

Command Syntax

```
class-to-exp-bit CLASS <0-7>
```

Configure trunk name

rsvp trunk name

Attribute Name: trunk-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: trunk-family

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          <trunk-family>ipv4</trunk-family>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
rsvp-trunk TRUNKNAME (ipv4|)
```

Configure ingress-trunk ingress

Use this attribute to specify a from IPv4 address for the RSVP daemon. In the RSVP trunk mode, this command indicates a sender's address in the sender template object that is used in path messages.

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          </config>
          <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
        </ingress-trunk>
      </ingress-trunks>
    </trunks>
  </rsvp-te>
```

```
</rsvp-te>
```

Command Syntax

```
from A.B.C.D
```

Configure ingress-trunk egress

Use this attribute to specify an IPv4 egress for an LSP. When configuring an LSP, you must specify the address of the egress router by using this command in the trunk node. An egress definition is a mandatory attribute; no RSVP session is created when an egress is not defined.

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <egress>A.B.C.D</egress> <!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
to A.B.C.D
```

Configure ingress-trunk ext-tunnel-id

Use this attribute to configure an extended-tunnel identifier as an IPv4/IPv6 address. These identifiers are used in RSVP messages. If no extended-tunnel ID is specified, the LSR-ID for the router is used as the extended-tunnel ID for all LSPs. The extended-tunnel ID is a simple way of identifying all LSPs belonging to the same trunk.

Attribute Name: ext-tunnel-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

```

        <ext-tunnel-id>A.B.C.D</ext-tunnel-id> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
ext-tunnel-id A.B.C.D
```

Configure ingress-trunk update-type

Use this attribute to change the method of updating attributes for sessions (primary/ secondary) for this trunk as either make-before-break (default) or break-before-make

Attribute Name: update-type

Attribute Type: enum (break-before-make|make-before-break)

Default Value: make-before-break

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <update-type>make-before-break</update-type> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
update-type (break-before-make|make-before-break)
```

Configure ingress-trunk description

Use this attribute to add description for rsvp tunnel

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>

```

```

    <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
    <description>LINE</description> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
description LINE
```

Configure ingress-trunk enable-reoptimize

Use this attribute to enable the reoptimization for the RSVP tunnel

Attribute Name: enable-reoptimize

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        </enable-reoptimize><!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
reoptimize
```

Configure ingress-trunk shutdown

Use this attribute to administratively shutdown the RSVP tunnel

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>

```

```

    <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  </shutdown><!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
shutdown
```

Configure multipath group

Use this attribute to configure a multipath group name for the RSVP Trunk

Attribute Name: multipath-group

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <multipath-group>GROUPNAME</multipath-group> <!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
multipath-group GROUPNAME
```

Configure absolute metric

Use this attribute to set LSP absolute metric metric for IGP Shortcut use

Attribute Name: absolute-metric

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>

```

```

<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <absolute-metric>1</absolute-metric> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
lsp-metric absolute <1-65535>
```

Configure relative metric

Use this attribute to set LSP relative metric metric for IGP Shortcut use

Attribute Name: relative-metric

Attribute Type: int32

Attribute Range: -65535-0,1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <relative-metric>-65535</relative-metric> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
lsp-metric relative (<-65535-0>|<1-65535>)
```

Configure revert timer

Use this attribute configure the Hold-on timer before revert back to RSVP session

Attribute Name: revert-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <revert-timer>1</revert-timer> <!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
revert-timer <1-65535>
```

Configure auto bandwidth

Use this attribute to configure a RSVP auto bandwidth profile to this RSVP Trunk

Attribute Name: auto-bandwidth

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          <auto-bandwidth>PROFILENAME</auto-bandwidth> <!-- operation="delete"-->
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
auto-bandwidth PROFILENAME
```

Configure ldp tunneling

Use this attribute to enable LDP tunneling for a TE tunnel

Attribute Name: ldp-tunneling

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        </ldp-tunneling><!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
ldp-tunneling
```

Configure trunk color

Use this attribute to configure color for RSVP Trunk

Attribute Name: trunk-color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          </config>
          <trunk-color>1</trunk-color> <!-- operation="delete"-->
        </ingress-trunk>
      </ingress-trunks>
    </trunks>
  </rsvp-te>
```

Command Syntax

```
trunk-color-code <1-4294967295>
```

Configure bsid value

Use this attribute to configure static binding segment identifier value

Attribute Name: bsid-value

Attribute Type: uint32

Attribute Range: 16-15999

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <bsid-value>16</bsid-value> <!-- operation="delete"-->
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
binding-sid mpls label <16-15999>
```

Configure path option dynamic

Use the attribute to enable Tunnel to get ERO from Path Computation Element

This command is supported when following feature are enabled gmpls feature

Attribute Name: path-option-dynamic

Attribute Type: enum (pce)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          </config>
          <path-computation-element>
            <config>
              <path-option-dynamic>pce</path-option-dynamic> <!-- operation="delete"-->
            </config>
          </path-computation-element>
        </ingress-trunk>
      </ingress-trunks>
    </trunks>
  </rsvp-te>
```


Command Syntax

```
path-option dynamic (pce)
```

Configure pce entity identifier

Use this attribute to assign PCE Entity ID for the tunnel

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-entity-identifier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <path-computation-element>
          <config>
            <pce-entity-identifier>1</pce-entity-identifier> <!-- operation="delete"-
->
          </config>
        </path-computation-element>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
pce entity <1-255>
```

Configure pce state report

Use this attribute to enable or disable lsp state report to PCE

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
```

```

    <config>
      <trunk-name>TRUNKNAME</trunk-name>
    </config>
  <path-computation-element>
    <config>
      </pce-state-report><!-- operation="delete"-->
    </config>
  </path-computation-element>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
pce state-report
```

Configure pce lsp delegate

Use this attribute to enable or disable lsp delegation to PCE

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <path-computation-element>
          <config>
            </pce-lsp-delegate><!-- operation="delete"-->
          </config>
        </path-computation-element>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
pce lsp-delegate
```

Configure address

rsvp trunk ipv4 map route address

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <mapped-ip-routes>
          <mapped-ip-route>
            <address>A.B.C.D/M</address>
            <config>
              <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
            </config>
          </mapped-ip-route>
        </mapped-ip-routes>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
map-route (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure priority value

Use this attribute to configure the secondary label record for the RSVP Trunk.

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
          <secondary-priorities>
            <secondary-priority>
              <priority-value>1</priority-value>
            <config>
              <priority-value>1</priority-value>
            </config>
          </secondary-priorities>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

```

        </enable-label-record><!-- operation="delete"-->
    </secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
secondary-priority <1-5> label-record
```

Configure priority path

Use this attribute to configure the secondary priority path for the RSVP Trunk.

Attribute Name: priority-path

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <secondary-priorities>
    <secondary-priority>
        <priority-value>1</priority-value>
        <config>
            <priority-value>1</priority-value>
        </config>
        <priority-path>PATHNAME</priority-path> <!-- operation="delete"-->
    </secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
secondary-priority <1-5> path PATHNAME
```

Configure secondary priority srlg disjoint

Use this attribute to configure the SRLG disjoint path for the RSVP Trunk.

Attribute Name: secondary-priority-srlg-disjoint

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <secondary-priorities>
          <secondary-priority>
            <priority-value>1</priority-value>
            <config>
              <priority-value>1</priority-value>
            </config>
            <secondary-priority-srlg-disjoint>forced</secondary-priority-srlg-
disjoint> <!-- operation="delete"-->
          </secondary-priority>
        </secondary-priorities>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
secondary-priority <1-5> srlg-disjoint (forced|preferred)
```

Configure secondary-priority hold-priority

Use this attribute to configure the secondary hold priority for the RSVP Trunk.

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <secondary-priorities>
          <secondary-priority>
            <priority-value>1</priority-value>
          </secondary-priority>
        </secondary-priorities>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

```

        <priority-value>1</priority-value>
    </config>
    <hold-priority>0</hold-priority> <!-- operation="delete"-->
</secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
secondary-priority <1-5> hold-priority <0-7>
```

Configure secondary-priority setup-priority

Use this attribute to configure the secondary setup priority for the RSVP Trunk.

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <secondary-priorities>
    <secondary-priority>
        <priority-value>1</priority-value>
        <config>
            <priority-value>1</priority-value>
        </config>
        <setup-priority>0</setup-priority> <!-- operation="delete"-->
    </secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
secondary-priority <1-5> setup-priority <0-7>
```

Configure secondary-priority hop-limit

Use this attribute to configure the secondary hop limit for the RSVP Trunk.

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <secondary-priorities>
          <secondary-priority>
            <priority-value>1</priority-value>
            <config>
              <priority-value>1</priority-value>
            </config>
            <hop-limit>1</hop-limit> <!-- operation="delete"-->
          </secondary-priority>
        </secondary-priorities>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> hop-limit <1-255>
```

Configure secondary-priority bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
```

```

    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <secondary-priorities>
    <secondary-priority>
      <priority-value>1</priority-value>
      <config>
        <priority-value>1</priority-value>
      </config>
      <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
    </secondary-priority>
  </secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

secondary-priority <1-5> bandwidth BANDWIDTH

Configure trunk session type

rsvp trunk session type

Attribute Name: trunk-session-type

Attribute Type: enum (secondary|primary)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session> <!-- operation="delete"-->
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

(secondary|primary)

Configure srlg disjoint secondary

Use this attribute to enable secondary srlg disjoint

Attribute Name: srlg-disjoint-secondary

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <srlg-disjoint-secondary>forced</srlg-disjoint-secondary> <!--
operation="delete"-->
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary) srlg-disjoint (forced|preferred)
```

Configure session disable-route-record

Use this attribute to enable recording of the route taken by Path and Reservation Request (Resv) messages. These messages confirm the establishment of reservations and also identifies errors. Routes are recorded by means of the Route Record Object (RRO) in the RSVP message.

Attribute Name: disable-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
```

```

    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
    <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
        <trunk-session-type>secondary</trunk-session-type>
      </config>
      </disable-route-record><!-- operation="delete"-->
    </session>
  </sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
no (secondary|primary) record
```

Configure disable affinity

Use this attribute to enable sending of session attribute objects with resource affinity data.

Attribute Name: disable-affinity

Attribute Type: uint8

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            </disable-affinity><!-- operation="delete"-->
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
no (secondary|primary) affinity
```

Configure session enable-reuse-route-record

Use this attribute to use the updated Route Record List as an Explicit Route (with all strict nodes) when a path message is sent out at the next refresh.

Attribute Name: enable-reuse-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            </enable-reuse-route-record><!-- operation="delete"-->
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) reuse-route-record
```

Configure disable cspf

Use this attribute to enable the use of Constrained Shortest Path First (CSPF) server for an explicit route to the egress, or all RSVP sessions. When CSPF is turned off globally, it cannot be enabled for any LSP.

Attribute Name: disable-cspf

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
```

```

    <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    </disable-cspf><!-- operation="delete"-->
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
no (secondary|primary) cspf
```

Configure session traffic-type

Use this attribute to identify the traffic type for this RSVP Trunk/bypss/P2MP LSP's

Attribute Name: traffic-type

Attribute Type: enum (controlled-load|guaranteed)

Default Value: controlled-load

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
  <ingress-trunks>
  <ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
      <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <traffic-type>controlled-load</traffic-type> <!-- operation="delete"-->
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>

```

```
</rsvp-te>
```

Command Syntax

```
(secondary|primary) traffic (controlled-load|guaranteed)
```

Configure session retry-count

Use this attribute to specify a retry count for an RSVP Trunk.

Attribute Name: retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <retry-count>1</retry-count> <!-- operation="delete"-->
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) retry-limit <1-65535>
```

Configure session retry-interval

Use this attribute to specify a retry interval for an RSVP Trunk. When an ingress node tries to configure an LSP and the setup fails due to the receipt of a Path Error message, the system waits for the time configured with this command, before retrying the LSP setup process

Attribute Name: retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <retry-interval>1</retry-interval> <!-- operation="delete"-->
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) retry-timer <1-600>
```

Configure session cspf-retry-count

Use this attribute to specify the number of retries that CSPF should carry out for a request received from RSVP.

Attribute Name: cspf-retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

```

        <cspf-retry-count>1</cspf-retry-count> <!-- operation="delete"-->
    </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) cspf-retry-limit <1-65535>
```

Configure session cspf-retry-interval

Use this attribute to specify the time between each retry that CSPF might carry out for a request received from RSVP.

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
    </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) cspf-retry-timer <1-600>
```

Configure enable node protection

Use this attribute to configure fast-reroute node-protection

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-node-protection

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <fast-reroute>
              <config>
                </enable-node-protection><!-- operation="delete"-->
              </config>
            </fast-reroute>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute node-protection
```

Configure protection

Use this attribute to create an Fast Reroute backup and to set an LSP one-to-one protection mechanism. This command can also be used to create an FRR Facility (Bypass) backup and assign a Facility Backup (Bypass Tunnel) available to the protected LSP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: protection

Attribute Type: enum (one-to-one|facility)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
```



```

    <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <fast-reroute>
    <config>
      <protection>one-to-one</protection> <!-- operation="delete"-->
    </config>
    </fast-reroute>
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(primary) fast-reroute protection (one-to-one|facility)
```

Configure frr hold priority

Use this attribute to configure the hold priority value for the selected trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-hold-priority

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
  <ingress-trunks>
  <ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
      <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
        <trunk-session-type>secondary</trunk-session-type>

```

```

    </config>
    <fast-reroute>
    <config>
        <frr-hold-priority>0</frr-hold-priority> <!-- operation="delete"-->
    </config>
    </fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(primary) fast-reroute hold-priority <0-7>
```

Configure frr setup priority

Use this attribute to configure the setup priority value for the selected trunk

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-setup-priority

Attribute Type: uint32

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <fast-reroute>
        <config>
            <frr-setup-priority>0</frr-setup-priority> <!-- operation="delete"-->
        </config>
        </fast-reroute>
    </session>
</sessions>
</ingress-trunk>

```

```

</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(primary) fast-reroute setup-priority <0-7>
```

Configure frr hop limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-hop-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <fast-reroute>
    <config>
      <frr-hop-limit>1</frr-hop-limit> <!-- operation="delete"-->
    </config>
    </fast-reroute>
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(primary) fast-reroute hop-limit <1-255>
```

Configure fast reroute bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: fast-reroute-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <fast-reroute>
              <config>
                <fast-reroute-bandwidth>BANDWIDTH</fast-reroute-bandwidth> <!--
operation="delete"-->
              </config>
            </fast-reroute>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute bandwidth BANDWIDTH
```

Configure admin group name

rsvp admin group name

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: admin-group-type

Attribute Type: enum (exclude-any|include-any)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
  <sessions>
    <session>
      <trunk-session-type>primary</trunk-session-type>
      <config>
        <trunk-session-type>primary</trunk-session-type>
      </config>
      <fast-reroute>
        <frr-admin-groups>
          <frr-admin-group>
            <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
            <config>
              <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
              <admin-group-type>exclude-any</admin-group-type>
            </config>
          </frr-admin-group>
        </frr-admin-groups>
      </fast-reroute>
    </session>
  </sessions>
</rsvp-te>

```

Command Syntax

```
(primary) fast-reroute (exclude-any|include-any) ADMIN-GROUP-NAME
```

Configure name

rsvp admin group name

This command is supported when following feature are enabled TE feature

Attribute Name: name

Attribute Type: string

Attribute Name: type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>

```

```

<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <admin-groups>
    <admin-group>
      <name>ADMIN-GROUP-NAME</name>
      <config>
        <name>ADMIN-GROUP-NAME</name>
        <type>exclude-any</type>
      </config>
    </admin-group>
  </admin-groups>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

(secondary|primary) (exclude-any|include-any|include-all) ADMIN-GROUP-NAME

Configure path-state-block path-name

Use this attribute to configure the path

Attribute Name: path-name

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>

```

```

    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
  <path-state-block>
    <config>
      <path-name>PATHNAME</path-name> <!-- operation="delete"-->
    </config>
  </path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) path PATHNAME
```

Configure session-attributes enable-label-record

Use this attribute to record all labels exchanged between RSVP-enabled routers during the reservation setup process

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <path-state-block>
              <session-attributes>
                <config>
                  </enable-label-record><!-- operation="delete"-->
                </config>
              </session-attributes>
            </path-state-block>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

```

</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) label-record
```

Configure session-attributes hold-priority

Use this attribute to configure the hold priority value for the selected trunk.

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <path-state-block>
    <session-attributes>
    <config>
      <hold-priority>0</hold-priority> <!-- operation="delete"-->
    </config>
    </session-attributes>
  </path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) hold-priority <0-7>
```

Configure session-attributes setup-priority

Use this attribute to configure the setup priority value for the selected trunk

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <path-state-block>
              <session-attributes>
                <config>
                  <setup-priority>0</setup-priority> <!-- operation="delete"-->
                </config>
              </session-attributes>
            </path-state-block>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) setup-priority <0-7>
```

Configure session-attributes hop-limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <path-state-block>
              <session-attributes>
                <config>
                  <hop-limit>1</hop-limit> <!-- operation="delete"-->
                </config>
              </session-attributes>
            </path-state-block>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) hop-limit <1-255>
```

Configure session-attributes filter-type

Use this attribute to set the filter to fixed or shared filter style for RSVP trunk.

Attribute Name: filter-type

Attribute Type: enum (fixed|shared-explicit)

Default Value: shared-explicit

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>

```

```

<sessions>
<session>
  <trunk-session-type>secondary</trunk-session-type>
  <config>
    <trunk-session-type>secondary</trunk-session-type>
  </config>
  <path-state-block>
  <session-attributes>
    <config>
      <filter-type>shared-explicit</filter-type> <!-- operation="delete"-->
    </config>
  </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) filter (fixed)
```

Configure session-attributes bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
  <sessions>
  <session>
    <trunk-session-type>secondary</trunk-session-type>
    <config>
      <trunk-session-type>secondary</trunk-session-type>
    </config>
    <path-state-block>
    <session-attributes>
      <config>
        <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
      </config>
    </session-attributes>
  </path-state-block>
  </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

```

    </session-attributes>
  </path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) bandwidth BANDWIDTH
```

Configure dscp exp map class name

rsvp trunk dsinfo exp val

This command is supported when following feature are enabled diffserv feature

Attribute Name: dscp-exp-map-exp-val

Attribute Type: int32

Attribute Range: 0-7

Attribute Name: dscp-exp-map-class-name

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <dscp-exp-maps>
                <dscp-exp-map>
                  <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
                  <config>
                    <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
                    <dscp-exp-map-class-name>CLASS</dscp-exp-map-class-name>
                  </config>
                </dscp-exp-map>
              </dscp-exp-maps>
            </diff-serv-info>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

```

</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) class-to-exp-bit CLASS <0-7>
```

Configure elsp signal

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface.

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
  <trunk-name>TRUNKNAME</trunk-name>
  <config>
    <trunk-name>TRUNKNAME</trunk-name>
  </config>
</trunk>
</trunks>
</ingress-trunks>
</ingress-trunk>
  <trunk-session-type>secondary</trunk-session-type>
  <config>
    <trunk-session-type>secondary</trunk-session-type>
  </config>
  <diff-serv-info>
    <elsp-class>
      <config>
        </elsp-signal><!-- operation="delete"-->
      </config>
    </elsp-class>
  </diff-serv-info>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) elsp-signaled
```

Configure elsp signal class1

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class1

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
  <sessions>
    <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
        <trunk-session-type>secondary</trunk-session-type>
      </config>
      <diff-serv-info>
        <elsp-class>
          <config>
            </elsp-signal><!-- operation="delete"-->
            <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
          </config>
        </elsp-class>
      </diff-serv-info>
    </session>
  </sessions>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-signal CLASS1
```

Configure elsp signal class2

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class2

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <elsp-class>
                <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                  <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                </config>
              </elsp-class>
            </diff-serv-info>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-sigaled CLASS1 CLASS2
```

Configure elsp signal class3

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class3

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <elsp-class>
                <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                  <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                  <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                </config>
              </elsp-class>
            </diff-serv-info>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-sigaled CLASS1 CLASS2 CLASS3
```


Configure elsp signal class4

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class4

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <elsp-class>
                <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                  <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                  <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                  <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                </config>
              </elsp-class>
            </diff-serv-info>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>
```

```

</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) elsp-sigaled CLASS1 CLASS2 CLASS3 CLASS4
```

Configure elsp signal class5

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class5

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class5

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
  <sessions>
    <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
        <trunk-session-type>secondary</trunk-session-type>
      </config>
      <diff-serv-info>
        <elsp-class>
          <config>

```

```

        </elsp-signal><!-- operation="delete"-->
        <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
        <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
        <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
        <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
        <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
    </config>
</elsp-class>
</diff-serv-info>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) elsp-signal CLASS1 CLASS2 CLASS3 CLASS4 CLASS5
```

Configure elsp signal class6

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class6

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class6

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal-class5

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <elsp-class>
                <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                  <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                  <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                  <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                  <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
                  <elsp-signal-class6>CLASS6</elsp-signal-class6> <!--
operation="delete"-->
                </config>
              </elsp-class>
            </diff-serv-info>
          </session>
        </sessions>
      </ingress-trunk>
    </ingress-trunks>
  </trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) elsp-sigaled CLASS1 CLASS2 CLASS3 CLASS4 CLASS5 CLASS6
```

Configure elsp signal class7

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class7

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class7

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal-class5

Attribute Type: string

Attribute Name: elsp-signal-class6

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunks>
    <ingress-trunks>
      <ingress-trunk>
        <trunk-name>TRUNKNAME</trunk-name>
        <config>
          <trunk-name>TRUNKNAME</trunk-name>
        </config>
        <sessions>
          <session>
            <trunk-session-type>secondary</trunk-session-type>
            <config>
              <trunk-session-type>secondary</trunk-session-type>
            </config>
            <diff-serv-info>
              <elsp-class>
                <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                  <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                  <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                  <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                  <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
```

```

        <elsp-signal-class6>CLASS6</elsp-signal-class6> <!--
operation="delete"-->
        <elsp-signal-class7>CLASS7</elsp-signal-class7> <!--
operation="delete"-->
    </config>
</elsp-class>
</diff-serv-info>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>

```

Command Syntax

```
(secondary|primary) elsp-sigaled CLASS1 CLASS2 CLASS3 CLASS4 CLASS5 CLASS6 CLASS7
```

Configure profile name

rsvp auto bandwidth profile name

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
rsvp-auto-bandwidth PROFILENAME
```

Configure sample interval

Use this attribute to specify the sample interval for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: sample-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <sample-interval>1</sample-interval> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
sample-interval <1-10080>
```

Configure adjust interval

Use this attribute to specify the adjust interval for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: adjust-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <adjust-interval>5</adjust-interval> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
adjust-interval <5-10080>
```

Configure minimum bandwidth

Use this attribute to specify a minimum bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <minimum-bandwidth>BANDWIDTH</minimum-bandwidth> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
minimum-bandwidth BANDWIDTH
```

Configure maximum bandwidth

Use this attribute to specify a maximum bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <maximum-bandwidth>BANDWIDTH</maximum-bandwidth> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
maximum-bandwidth BANDWIDTH
```

Configure overflow threshold percent

Use this attribute to specify the overflow threshold bandwidth in percentage for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <overflow-threshold-percent>1</overflow-threshold-percent> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-threshold percent <1-100>
```

Configure underflow threshold percent

Use this attribute to specify the underflow threshold bandwidth in percentage for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <underflow-threshold-percent>1</underflow-threshold-percent> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
underflow-threshold percent <1-100>
```

Configure overflow threshold bandwidth

Use this attribute to specify the upper adjust threshold bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <overflow-threshold-bandwidth>BANDWIDTH</overflow-threshold-bandwidth> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-threshold absolute BANDWIDTH
```

Configure underflow threshold bandwidth

Use this attribute to specify the lower adjust threshold bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <underflow-threshold-bandwidth>BANDWIDTH</underflow-threshold-bandwidth> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
underflow-threshold absolute BANDWIDTH
```

Configure underflow threshold activate bandwidth

Use this attribute to specify the lower adjust threshold activate bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-activate-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <underflow-threshold-activate-bandwidth>BANDWIDTH</underflow-threshold-
activate-bandwidth> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
underflow-threshold-activate-bandwidth BANDWIDTH
```

Configure overflow threshold activate bandwidth

Use this attribute to specify the upper adjust threshold activate bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-activate-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <overflow-threshold-activate-bandwidth>BANDWIDTH</overflow-threshold-
activate-bandwidth> <!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>
```

```
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-threshold-activate-bandwidth BANDWIDTH
```

Configure overflow limit

Use this attribute to specify the adjust threshold overflow limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-limit

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
  <profile-name>PROFILENAME</profile-name>
  <config>
    <profile-name>PROFILENAME</profile-name>
  </config>
  <overflow-limit>1</overflow-limit> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-limit <1-10080>
```

Configure underflow limit

Use this attribute to specify the adjust threshold underflow limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-limit

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
  <profile-name>PROFILENAME</profile-name>
  <config>
    <profile-name>PROFILENAME</profile-name>
  </config>
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

```

        <underflow-limit>1</underflow-limit> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
underflow-limit <1-10080>
```

Configure initial bandwidth

Use this attribute to specify an initial bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: initial-bandwidth

Attribute Type: string

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
  <profile-name>PROFILENAME</profile-name>
  <config>
    <profile-name>PROFILENAME</profile-name>
  </config>
  <initial-bandwidth>BANDWIDTH</initial-bandwidth> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
initial-bandwidth BANDWIDTH
```

Configure maximum bandwidth exceed limit

Use this attribute to specify the maximum bandwidth exceed limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth-exceed-limit

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-10080

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
  <profile-name>PROFILENAME</profile-name>

```

```

    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    <maximum-bandwidth-exceed-limit>1</maximum-bandwidth-exceed-limit> <!--
operation="delete"-->
  </rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
maximum-bandwidth-exceed-limit <1-10080>
```

Configure maximum bandwidth exceed action

Use this attribute to teardown if maximum bandwidth exceeds for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth-exceed-action

Attribute Type: enum (teardown)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <maximum-bandwidth-exceed-action>teardown</maximum-bandwidth-exceed-action>
    <!-- operation="delete"-->
  </rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
maximum-bandwidth-exceed-action (teardown)
```

Configure resignal failure action

Use this attribute to teardown if resignalling fails for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: resignal-failure-action

Attribute Type: enum (teardown)

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>

```

```

    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    <resignal-failure-action>teardown</resignal-failure-action> <!--
operation="delete"-->
  </rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
resignal-failure-action (teardown)
```

Configure sync bandwidth

Use this attribute to sync bandwidth for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: sync-bandwidth

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      </sync-bandwidth><!-- operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
sync-bandwidth
```

Configure monitor bandwidth

Use this attribute to monitor bandwidth for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: monitor-bandwidth

Attribute Type: empty

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>

```

```

    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    </monitor-bandwidth><!-- operation="delete"-->
  </rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
monitor-bandwidth
```

Configure minimum samples percent

Use this attribute to specify the minimum percentage of rate samples to be collected in an adjustment cycle to be eligible for bandwidth processing. Minimum of one sample considered by default.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-samples-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    <minimum-samples-percent>1</minimum-samples-percent> <!-- operation="delete"-->
  ->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
minimum-samples percent <1-100>
```

Configure minimum samples absolute

Use this attribute to specify the minimum number of rate samples to be collected in an adjustment cycle to be eligible for bandwidth processing. Minimum of one sample considered by default.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-samples-absolute

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <minimum-samples-absolute>1</minimum-samples-absolute> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
  </rsvp-auto-bandwidths>
</rsvp-te>

```

Command Syntax

```
minimum-samples absolute <1-10080>
```

clear rsvp session ***Netconf RPC payload**

```

<ipi-rsvp-trunk_clear-rsvp-session xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp"/>

```

Command Syntax

```
clear rsvp session *
```

clear rsvp trunk (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```

<ipi-rsvp-trunk_clear-rsvp-trunk xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-trunk>

```

Command Syntax

```
clear rsvp trunk (TRUNKNAME|*)
```

clear rsvp trunk (TRUNKNAME|*) (primary)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```

<ipi-rsvp-trunk_clear-rsvp-primary-trunk xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rsvp">

```

```
<trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-primary-trunk>
```

Command Syntax

```
clear rsvp trunk (TRUNKNAME|*) (primary)
```

clear rsvp trunk (TRUNKNAME|*) (secondary)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_clear-rsvp-secondary-trunk xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-secondary-trunk>
```

Command Syntax

```
clear rsvp trunk (TRUNKNAME|*) (secondary)
```

clear rsvp trunk ingress (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_clear-rsvp-ingress-trunk xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-ingress-trunk>
```

Command Syntax

```
clear rsvp trunk ingress (TRUNKNAME|*)
```

clear rsvp trunk non-ingress (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_clear-rsvp-non-ingress-trunk xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-non-ingress-trunk>
```

Command Syntax

```
clear rsvp trunk non-ingress (TRUNKNAME|*)
```

rsvp-session SESSIONNAME force-reoptimize

Attribute Name: session-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-trunk-force-reoptimize-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
  <session-name>SESSIONNAME</session-name>
</ipi-rsvp-trunk_rsvp-trunk-force-reoptimize-on>
```

Command Syntax

```
rsvp-session SESSIONNAME force-reoptimize
```

rsvp-trunk TRUNKNAME force-switchover-secondary (off|on)

Attribute Name: trunk-name

Attribute Type: string

Attribute Name: action

Attribute Type: enum (off|on)

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-trunk-force-switchover-secondary xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
  <action>off</action>
</ipi-rsvp-trunk_rsvp-trunk-force-switchover-secondary>
```

Command Syntax

```
rsvp-trunk TRUNKNAME force-switchover-secondary (off|on)
```

rsvp-trunk-restart

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-trunk-restart xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
  <trunk-name>WORD</trunk-name>
</ipi-rsvp-trunk_rsvp-trunk-restart>
```

Command Syntax

```
rsvp-trunk-restart
```

clear rsvp session TUNNEL-ID LSP-ID INGRESS EGRESS

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Name: lsp-id

Attribute Type: uint32

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-session-reset xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
  <tunnel-id>TUNNEL-ID</tunnel-id>
  <lsp-id>LSP-ID</lsp-id>
  <ingress>INGRESS</ingress>
  <egress>EGRESS</egress>
</ipi-rsvp-trunk_rsvp-session-reset>
```

Command Syntax

```
clear rsvp session TUNNEL-ID LSP-ID INGRESS EGRESS
```

rsvp-trunk TRUNKNAME force-auto-bandwidth-adjustment (BANDWIDTH|)

Attribute Name: trunk-name

Attribute Type: string

Attribute Name: force-auto-bandwidth-adjustment

Attribute Type: boolean

Attribute Name: bandwidth

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-trunk-force-auto-bandwidth-adjustment xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
  <force-auto-bandwidth-adjustment>true</force-auto-bandwidth-adjustment/>
  <bandwidth>BANDWIDTH</bandwidth>
</ipi-rsvp-trunk_rsvp-trunk-force-auto-bandwidth-adjustment>
```

Command Syntax

```
rsvp-trunk TRUNKNAME force-auto-bandwidth-adjustment (BANDWIDTH|)
```

clear rsvp auto-bandwidth (PROFILENAME|)

Attribute Name: autobw-profile

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_rsvp-clear-auto-bandwidth xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <autobw-profile>PROFILENAME</autobw-profile>
</ipi-rsvp-trunk_rsvp-clear-auto-bandwidth>
```

Command Syntax

```
clear rsvp auto-bandwidth (PROFILENAME|)
```

clear rsvp trunk TRUNKNAME auto-bandwidth-statistics

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
<ipi-rsvp-trunk_clear-rsvp-trunk-auto-bandwidth-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <trunk-name>TRUNKNAME</trunk-name>
</ipi-rsvp-trunk_clear-rsvp-trunk-auto-bandwidth-statistics>
```

Command Syntax

```
clear rsvp trunk TRUNKNAME auto-bandwidth-statistics
```

clear rsvp neighbor A.B.C.D

Attribute Name: address

Attribute Type: inet:ip-address

Netconf RPC payload

```
<ipi-rsvp-trunk_clear-rsvp-neighbor xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <address>A.B.C.D</address>
</ipi-rsvp-trunk_clear-rsvp-neighbor>
```

Command Syntax

```
clear rsvp neighbor A.B.C.D
```

IPI-RSVP-INTERFACE

Configure enable rsvp

Use this attribute to enable control adjacency to send and receive RSVP-TE control messages for MPLS and GMPLS

Attribute Name: enable-rsvp

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-rsvp><!-- operation="delete"-->
    </interface>
  </interfaces>
</rsvp-te>
```

Command Syntax

```
enable-rsvp
```

Configure enable iana hello config

Enable the exchange of non IANA specific Hello messages

Attribute Name: enable-iana-hello-config

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-iana-hello-config><!-- operation="delete"-->
    </interface>
  </interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp non-IANA-hello
```

Configure disable refresh reduction

Use this attribute to enable refresh reduction capability advertisement for all interfaces

Attribute Name: disable-refresh-reduction

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <refresh-reduction>
        <config>
          </disable-refresh-reduction><!-- operation="delete"-->
        </config>
      </refresh-reduction>
    </interface>
  </interfaces>
</rsvp-te>
```

Command Syntax

```
no rsvp refresh-reduction
```

Configure enable message ack

Use this attribute to enable message acknowledgement for all messages being sent to neighbors that are known to support refresh reduction.

Attribute Name: enable-message-ack

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <refresh-reduction>
        <config>
          </enable-message-ack><!-- operation="delete"-->
        </config>
      </refresh-reduction>
    </interface>
  </interfaces>
```

```
</rsvp-te>
```

Command Syntax

```
rsvp message-ack
```

Configure ack wait timeout

Use this attribute to configure the acknowledgement wait timeout for all RSVP-TE neighbors

Attribute Name: ack-wait-timeout

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
        </config>
        <refresh-reduction>
          <config>
            <ack-wait-timeout>1</ack-wait-timeout> <!-- operation="delete"-->
          </config>
        </refresh-reduction>
      </interface>
    </interfaces>
  </rsvp-te>
```

Command Syntax

```
rsvp ack-wait-timeout <1-65535>
```

Configure refresh time

Use this attribute to configure RSVP refresh interval timer. The timer specifies the interval after which Path and/ or Reservation Request (Resv) messages will be sent out. The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid Reservation Lifetime for an LSP. Refresh time regulates the interval between Refresh messages which include Path and Reservation Request (Resv) messages. Refresh messages are sent periodically so that reservation does not timeout in the neighboring nodes. Each sender and receiver host sends Path and Resv messages, downstream and upstream respectively, along the paths.

Attribute Name: refresh-time

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <refresh-reduction>
  <config>
    <refresh-time>1</refresh-time> <!-- operation="delete"-->
  </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp refresh-time <1-65535>
```

Configure keep multiplier

Use this attribute to configure the constant to be used to calculate a valid reservation lifetime for a Labeled Switched Path (LSP). The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid reservation lifetime for an LSP. The router sends refresh messages periodically so that the neighbors do not timeout

Attribute Name: keep-multiplier

Attribute Type: int32

Default Value: 3

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <refresh-reduction>
  <config>
    <keep-multiplier>1</keep-multiplier> <!-- operation="delete"-->
  </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp keep-multiplier <1-255>
```

Configure enable hello receipt

Use this attribute to enable the receipt of Hello messages from peers.

Attribute Name: enable-hello-receipt

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <hellos>
        <config>
          </enable-hello-receipt><!-- operation="delete"-->
        </config>
      </hellos>
    </interface>
  </interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp hello-receipt
```

Configure hello interval

Use this attribute to set an interval between Hello packets.Used as a global command, this value is over-ridden by the hello-interval set on the interface (see rsvp hello-interval).For optimum performance, set this value no more than one-third of the hello-timeout value.

Attribute Name: hello-interval

Attribute Type: int32

Default Value: 2

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</rsvp-te>
```

```

    <hellos>
    <config>
        <hello-interval>1</hello-interval> <!-- operation="delete"-->
    </config>
</hellos>
</interface>
</interfaces>
</rsvp-te>

```

Command Syntax

```
rsvp hello-interval <1-65535>
```

Configure hello timeout

Timeout for clearing up all sessions shared with a neighbor. If an LSR has not received a Hello message from a peer within the number of seconds set with this command, all sessions shared with this peer are reset. The hello-timeout determines how long an RSVP node waits for a hello message before declaring a neighbor to be down.

Attribute Name: hello-timeout

Attribute Type: int32

Default Value: 7

Attribute Range: 1-65535

Netconf edit-config payload

```

<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <hellos>
    <config>
        <hello-timeout>1</hello-timeout> <!-- operation="delete"-->
    </config>
</hellos>
</interface>
</interfaces>
</rsvp-te>

```

Command Syntax

```
rsvp hello-timeout <1-65535>
```

IPI-MPLS

Configure name

Specify service template name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template> <!-- operation="delete"-->
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      </customer-service-template>
    </customer-service-templates>
  </l2vpn>
</mpls>
```

Command Syntax

```
service-template NAME
```

Configure match all

Use this attribute to specify match criteria as match all

Attribute Name: match-all

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
        </match-all><!-- operation="delete"-->
      </customer-service-template>
    </customer-service-templates>
  </l2vpn>
</mpls>
```

Command Syntax

```
match all
```

Configure match single tag outer vlan range

Use this attribute to set match type with outer vlan value

Attribute Name: match-single-tag-outer-vlan-range

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <match-single-tag-outer-vlan-range>VLAN_RANGE2</match-single-tag-outer-vlan-
range> <!-- operation="delete"-->
      </customer-service-template>
    </customer-service-templates>
  </l2vpn>
</mpls>
```

Command Syntax

```
match outer-vlan VLAN_RANGE2
```

Configure match untagged

Use this attribute to specify match criteria as match untagged

Attribute Name: match-untagged

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <match-untagged><!-- operation="delete"-->
      </customer-service-template>
    </customer-service-templates>
  </l2vpn>
</mpls>
```

```
</l2vpn>
</mpls>
```

Command Syntax

```
match untagged
```

Configure match inner vlan id

Specify inner vlan VID or range(VLAN ID 1-4094 or range: 2-5) for match double tag

Attribute Name: match-inner-vlan-id

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      <double-tags>
        <double-tag>
          <match-outer-vlan-id>1</match-outer-vlan-id>
          <config>
            <match-outer-vlan-id>1</match-outer-vlan-id>
            </config>
            <match-inner-vlan-id>VLAN_RANGE2</match-inner-vlan-id> <!--
operation="delete"-->
          </double-tag>
        </double-tags>
      </customer-service-template>
    </customer-service-templates>
  </l2vpn>
</mpls>
```

Command Syntax

```
match double-tag outer-vlan <1-4094> inner-vlan VLAN_RANGE2
```

Configure vlan action type

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: tag-protocol-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100)

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>

```

Command Syntax

```
rewrite ingress (pop) (outgoing-tpid (dot1.q|dot1.ad|0x9100) |)
```

Configure outer vlan identifier

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: outer-vlan-identifier

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: tag-protocol-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100)

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>

```

```

<action-type>
  <vlan-action-type>pop</vlan-action-type>
  <config>
    <vlan-action-type>pop</vlan-action-type>
    <outer-vlan-identifier>1</outer-vlan-identifier>
    <tag-protocol-identifier>dot1.q</tag-protocol-identifier>
  </config>
</action-type>
</action-types>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>

```

Command Syntax

```
rewrite ingress (translate) <1-4094> (outgoing-tpid (dot1.q|dot1.ad|0x9100)|)
```

Configure action-types vlan-action-type

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: outer-vlan-identifier

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <customer-service-templates>
      <customer-service-template>
        <name>NAME</name>
        <config>
          <name>WORD</name>
        </config>
      </customer-service-template>
    </customer-service-templates>
    <action-types>
      <action-type>
        <vlan-action-type>pop</vlan-action-type>
        <config>
          <vlan-action-type>pop</vlan-action-type>
          <outer-vlan-identifier>1</outer-vlan-identifier>
        </config>
      </action-type>
    </action-types>
  </l2vpn>
</mpls>

```


Command Syntax

```
rewrite ingress (push) <1-4094>
```

Configure group name

Use this attribute to create a new access circuit group for MPLS

This command is supported when following feature are enabled MPLS-VC feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <l2vpn>
    <access-circuit-groups>
      <access-circuit-group> <!-- operation="delete"-->
        <group-name>NAME</group-name>
        <config>
          <group-name>WORD</group-name>
          <group-identifier>1</group-identifier>
        </config>
      </access-circuit-group>
    </access-circuit-groups>
  </l2vpn>
</mpls>
```

Command Syntax

```
mpls ac-group NAME <1-4294967295>
```

Configure local packet handling

Use this attribute to enable the labeling of locally generated TCP packets. All other locally generated packets are not looked at by the MPLS Forwarder

Attribute Name: local-packet-handling

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </local-packet-handling><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

```
</mpls>
```

Command Syntax

```
mpls local-packet-handling
```

Configure lsp stitching

Use this attribute to enable lsp stitching for ILM and installed FTM

Attribute Name: lsp-stitching

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </lsp-stitching><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls lsp-stitching
```

Configure propagate ttl

Use this attribute to enable TTL propagation. Enabling TTL propagation causes the TTL value in the IP header to be copied onto the TTL field in the shim header, at the LSP ingress

Attribute Name: propagate-ttl

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </propagate-ttl><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls propagate-ttl
```

Configure ingress ttl value

Use this attribute to set a Time to Live (TTL) value for LSPs for which this LSR is the ingress.

Attribute Name: ingress-ttl-value

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      <ingress-ttl-value>0</ingress-ttl-value> <!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls ingress-ttl <0-255>
```

Configure lsp model uniform

Use this attribute to configure the MPLS LSP model as Uniform.

Attribute Name: lsp-model-uniform

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </lsp-model-uniform><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls lsp-model uniform
```

Configure lsp encap dscp preserve

Use this attribute to allow dscp update for IP packets encapsulated into MPLS frame

Attribute Name: lsp-encap-dscp-preserve

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </lsp-encap-dscp-preserve><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls lsp-encap-dscp-preserve
```

Configure propagate exp to cos

Use this attribute to enable EXP propagation to exposed header after PHP action. This will further inherit the information to update COS value when network out interface (sub-interface or SVI) adds a vlan header.

Attribute Name: propagate-exp-to-cos

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </propagate-exp-to-cos><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls php-ilm propagate-exp-to-cos
```

Configure l2vpn nw statistics

Use this attribute to allow counting the network side L2VPN traffic statistics at service level instead of counting them under transport. In Qumran2 devices, since a single counting profile is used, L2VPN traffic can be counted either at transport level or at service level but not both. In order to support auto bandwidth feature in RSVP, counting the traffic under transport is important. So, by default, L2VPN traffic is counted under transport. This attribute provisions the user to prefer network traffic statistics at L2VPN service level.

Attribute Name: l2vpn-nw-statistics

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </l2vpn-nw-statistics><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls l2vpn-nw-statistics
```

Configure six pe dscp preserve

Use this attribute to configure DSCP preserve enable or disable for 6PE services

Attribute Name: six-pe-dscp-preserve

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      <six-pe-dscp-preserve>enable</six-pe-dscp-preserve> <!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls 6pe lsp-encap-dscp-preserve (enable|disable)
```

Configure suppress oper log mpls

Use this attribute to suppress oper logs for the MPLS services

Attribute Name: suppress-oper-log-mpls

Attribute Type: bits (l2vpn)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      <suppress-oper-log-mpls>l2vpn</suppress-oper-log-mpls> <!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
suppress-oper-log mpls (l2vpn)
```

Configure l2vpn stitching

Use this attribute to enable L2VPN stitching

Attribute Name: l2vpn-stitching

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <global>
    <config>
      </l2vpn-stitching><!-- operation="delete"-->
    </config>
  </global>
</mpls>
```

Command Syntax

```
mpls l2vpn-stitching
```

Configure enable

Use this attribute to enable label-switching on a TE link

Attribute Name: enable

Attribute Type: empty

Attribute Name: label-space

Attribute Type: uint16

Attribute Range: 0-60000

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <label-switching>
      <config>
        <label-space>0</label-space>
        </enable>
      </config>
    </label-switching>
  </interface>
</interfaces>
</mpls>
```

Command Syntax

```
label-switching (<0-60000>|)
```

Configure admin group name

Use this attribute to create an administrative group to be used for links. Each link can be a member of one or more, or no administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: admin-group-name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
```

```

        <name>WORD</name>
    </config>
<mpls-interface-bandwidth>
<config>
    <admin-group-name>NAME</admin-group-name> <!-- operation="delete"-->
</config>
</mpls-interface-bandwidth>
</interface>
</interfaces>
</mpls>

```

Command Syntax

```
admin-group NAME
```

Configure admin group anomaly name

Use this attribute to create an anomaly administrative group to be advertised when measured link delay is anomalous. Each link can be a member of one or more, or no administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: admin-group-anomaly-name

Attribute Type: string

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<mpls-interface-bandwidth>
<config>
    <admin-group-anomaly-name>NAME</admin-group-anomaly-name> <!--
operation="delete"-->
</config>
</mpls-interface-bandwidth>
</interface>
</interfaces>
</mpls>

```

Command Syntax

```
admin-group anomaly NAME
```

Configure extended admin group name

Use this attribute to create a regular extended administrative group to be used for links. Each link can be a member of one or more, or no extended administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: extended-admin-group-name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mpls-interface-bandwidth>
        <config>
          <extended-admin-group-name>NAME</extended-admin-group-name> <!--
operation="delete"-->
        </config>
      </mpls-interface-bandwidth>
    </interface>
  </interfaces>
</mpls>
```

Command Syntax

```
extended-admin-group NAME
```

Configure extended admin group anomaly name

Use this attribute to create an anomaly extended administrative group to be advertised when measured link delay is anomalous. Each link can be a member of one or more, or no extended administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: extended-admin-group-anomaly-name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mpls-interface-bandwidth>
        <config>
          <extended-admin-group-anomaly-name>NAME</extended-admin-group-anomaly-name>
<!-- operation="delete"-->
        </config>
      </mpls-interface-bandwidth>
    </interface>
  </interfaces>
</mpls>
```


Command Syntax

```
extended-admin-group anomaly NAME
```

Configure bandwidth

Use this attribute to specify a discrete, maximum bandwidth value for the interface. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mpls-interface-bandwidth>
      <config>
        <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
      </config>
    </mpls-interface-bandwidth>
  </interface>
</interfaces>
</mpls>
```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure reservable bandwidth

Use this attribute to specify the maximum reservable bandwidth per interface. This value can be equal or smaller value than max-bandwidth. Attribute takes input from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps

Attribute Name: reservable-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mpls-interface-bandwidth>
      <config>
```

```

        <reservable-bandwidth>BANDWIDTH</reservable-bandwidth> <!--
operation="delete"-->
    </config>
</mpls-interface-bandwidth>
</interface>
</interfaces>
</mpls>

```

Command Syntax

```
reservable-bandwidth BANDWIDTH
```

Configure shared risk link group

Use this attribute to add the link to a srlg group

Attribute Name: shared-risk-link-group

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <mpls-interface-bandwidth>
      <config>
        <shared-risk-link-group>1</shared-risk-link-group> <!-- operation="delete"-->
      </config>
    </mpls-interface-bandwidth>
  </interface>
</interfaces>
</mpls>

```

Command Syntax

```
mpls traffic-eng srlg <1-4294967295>
```

Configure uni available bandwidth

Use this attribute to specify a unidirectional, available bandwidth value for the interface. The bandwidth attribute takes input in 0-999 kbps, 0-999 mbps and 0-100 gbps.

Attribute Name: uni-available-bandwidth

Attribute Type: string

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>

```

```

<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <mpls-interface-bandwidth>
  <config>
    <uni-available-bandwidth>BANDWIDTH</uni-available-bandwidth> <!--
operation="delete"-->
  </config>
</mpls-interface-bandwidth>
</interface>
</interfaces>
</mpls>

```

Command Syntax

```
bandwidth-measurement static uni-available-bandwidth BANDWIDTH
```

Configure uni residual bandwidth

Use this attribute to specify a unidirectional, residual bandwidth value for the interface. The bandwidth attribute takes input in 0-999 kbps, 0-999 mbps and 0-100 gbps.

Attribute Name: uni-residual-bandwidth

Attribute Type: string

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mpls-interface-bandwidth>
      <config>
        <uni-residual-bandwidth>BANDWIDTH</uni-residual-bandwidth> <!--
operation="delete"-->
      </config>
    </mpls-interface-bandwidth>
  </interface>
</interfaces>
</mpls>

```

Command Syntax

```
bandwidth-measurement static uni-residual-bandwidth BANDWIDTH
```

Configure uni utilized bandwidth

Use this attribute to specify a unidirectional, utilised bandwidth value for the interface. The bandwidth attribute takes input in 0 to 999 kbps, 0 to 999 mbps and 1 to 100gbps.

Attribute Name: uni-utilized-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mpls-interface-bandwidth>
        <config>
          <uni-utilized-bandwidth>BANDWIDTH</uni-utilized-bandwidth> <!--
operation="delete"-->
        </config>
      </mpls-interface-bandwidth>
    </interface>
  </interfaces>
</mpls>
```

Command Syntax

```
bandwidth-measurement static uni-utilized-bandwidth BANDWIDTH
```

Configure max label

Use this attribute to configure a maximum label value for a label space. After setting a maximum label value for a label space, make sure to bind the label space to an interface

Attribute Name: max-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: min-label

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <label-spaces>
    <label-space>
      <label-space-name>0</label-space-name>
      <config>
        <label-space-name>0</label-space-name>
      </config>
    </label-space>
  </label-spaces>
</mpls>
```

```

<global-label-range>
<config>
  <min-label>16</min-label>
  <max-label>16</max-label>
</config>
</global-label-range>
</label-space>
</label-spaces>
</mpls>

```

Command Syntax

```
mpls min-label-value <16-1048575> max-label-value <16-1048575> (label-space <0-60000>|)
```

Configure label space name

This attribute identifies the label space

Attribute Name: label-space-name

Attribute Type: uint16

Attribute Range: 0-60000

Attribute Name: module-name

Attribute Type: enum (rsvp|ldp|ldp-vc|bgp)

Attribute Name: min-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: max-label

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<label-spaces>
<label-space> <!-- operation="delete"-->
  <label-space-name>0</label-space-name>
<config>
  <label-space-name>0</label-space-name>
</config>
<module-label-ranges>
<module-label-range>
  <module-name>rsvp</module-name>
<config>
  <min-label>16</min-label>
  <max-label>16</max-label>
</config>
</module-label-range>
</module-label-ranges>

```

```

</label-space>
</label-spaces>
</mpls>

```

Command Syntax

```
mpls (rsvp|ldp|ldp-vc|bgp) min-label-value <16-1048575> max-label-value <16-1048575> (label-space <0-60000>|)
```

Configure ftn ecmp protocol

Use this attribute to configure ECMP on forwarder for supported protocol FTNs

Attribute Name: ftn-ecmp-protocol

Attribute Type: bits (ldp|sr)

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <ecmp>
    <config>
      <ftn-ecmp-protocol>ldp</ftn-ecmp-protocol> <!-- operation="delete"-->
    </config>
  </ecmp>
</mpls>

```

Command Syntax

```
mpls ftn-ecmp (ldp|sr)
```

Configure ilm ecmp protocol

Use this attribute to configure ECMP on forwarder for supported protocol ILMs

Attribute Name: ilm-ecmp-protocol

Attribute Type: bits (ldp|sr)

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <ecmp>
    <config>
      <ilm-ecmp-protocol>ldp</ilm-ecmp-protocol> <!-- operation="delete"-->
    </config>
  </ecmp>
</mpls>

```

Command Syntax

```
mpls ilm-ecmp (ldp|sr)
```

Configure six-pe-tunnel-policies name

Name for the tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature ,6PE feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<six-pe-tunnel-policies>
<six-pe-tunnel-policy> <!-- operation="delete"-->
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</six-pe-tunnel-policy>
</six-pe-tunnel-policies>
</mpls>
```

Command Syntax

```
mpls 6pe tunnel-select-policy NAME
```

Configure bandwidth-classes name

Use this attribute to create a new bandwidth class name. Using this command changes the command mode to Bandwidth-class mode

This command is supported when following feature are enabled TE feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<bandwidth-classes>
<bandwidth-class> <!-- operation="delete"-->
  <name>NAME</name>
  <config>
    <name>WORD</name>
  </config>
</bandwidth-class>
</bandwidth-classes>
</mpls>
```

Command Syntax

```
mpls bandwidth-class NAME
```

Configure max bandwidth

Use this attribute to specify the maximum bandwidth to be used for a bandwidth-class. The bandwidth value is in bits

This command is supported when following feature are enabled TE feature

Attribute Name: max-bandwidth

Attribute Type: string

Attribute Name: setup-priority

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: hold-priority

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <bandwidth-classes>
    <bandwidth-class>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    <properties>
      <config>
        <setup-priority>0</setup-priority>
        <hold-priority>0</hold-priority>
        <max-bandwidth>BANDWIDTH</max-bandwidth>
      </config>
    </properties>
  </bandwidth-class>
</bandwidth-classes>
</mpls>
```

Command Syntax

```
bandwidth BANDWIDTH setup-priority <0-7> hold-priority <0-7>
```

IPI-MPLS-RIB

Configure route prefix

Use this attribute to specify the route prefix for which FEC mapping needs to be added

Attribute Name: route-prefix

Attribute Type: string

Attribute Name: mapped-fec

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
```



```

<map-route>
<static-ipv4-map-routes>
<static-ipv4-map-route> <!-- operation="delete"-->
  <route-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</route-prefix>
  <config>
    <route-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</route-prefix>
    <mapped-fec>A.B.C.D/M|A.B.C.D A.B.C.D</mapped-fec>
  </config>
</static-ipv4-map-route>
</static-ipv4-map-routes>
</map-route>
</rib>
</mpls>

```

Command Syntax

```
mpls map-route (A.B.C.D/M|A.B.C.D A.B.C.D) (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure out interface name

Outgoing interface name

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<ipv4-static-ftn-entries>
<ipv4-static-ftn-entry>
  <out-interface-name>IFNAME</out-interface-name>
  <config>
    <out-interface-name>IFNAME</out-interface-name>
    <nexthop-ip-address>A.B.C.D</nexthop-ip-address>
    <pushed-label>16</pushed-label>
    <fec-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</fec-prefix>
  </config>
    <nexthop-ip-address>A.B.C.D</nexthop-ip-address>
    <pushed-label>16</pushed-label>
    <fec-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</fec-prefix>
  </ipv4-static-ftn-entry>
</ipv4-static-ftn-entries>
</static-lsps>
</rib>
</mpls>

```

Command Syntax

```
mpls ftm-entry (A.B.C.D/M|A.B.C.D A.B.C.D) <16-15999> A.B.C.D IFNAME
```

Configure tunnel id

FTN tunnel-id value

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ftn-tunnels>
<static-ftn-tunnel> <!-- operation="delete"-->
  <is-primary>primary</is-primary>
  <config>
    <is-primary>primary</is-primary>
    <out-interface-name>IFNAME</out-interface-name>
    <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
    <pushed-label>16</pushed-label>
    <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
    <tunnel-id>1</tunnel-id>
  </config>
  <out-interface-name>IFNAME</out-interface-name>
  <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
  <pushed-label>16</pushed-label>
  <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
  <tunnel-id>1</tunnel-id>
</static-ftn-tunnel>
</static-ftn-tunnels>
</static-lsps>
</rib>
</mpls>
```

Command Syntax

```
mpls ftn-entry tunnel-id <1-5000> (A.B.C.D/M|A.B.C.D A.B.C.D) <16-1048575> A.B.C.D
IFNAME ((secondary|primary)|)
```

Configure fec prefix

FTN tunnel-id value

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ftn-tunnels>
<static-ftn-tunnel> <!-- operation="delete"-->
  <is-primary>primary</is-primary>
  <config>
    <is-primary>primary</is-primary>
    <out-interface-name>IFNAME</out-interface-name>
    <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
    <pushed-label>16</pushed-label>
    <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
    <tunnel-id>1</tunnel-id>
  </config>
  <out-interface-name>IFNAME</out-interface-name>
  <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
  <pushed-label>16</pushed-label>
  <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
  <tunnel-id>1</tunnel-id>
</static-ftn-tunnel>
</static-ftn-tunnels>
</static-lsps>
</rib>
</mpls>

```

Command Syntax

```

mpls ftn-entry tunnel-id <1-5000> X:X::X:X/M <16-1048575> X:X::X:X IFNAME
((secondary|primary) |)

```

Configure enable pop label

Use this attribute to create an ILM entry in the ILM table to which a POP incoming interface is bound. Upon receipt of a labeled packet on an MPLS-enabled router, a lookup is done based on the incoming label in the ILM table. If a match is found, the packet may either be label-switched downstream, or popped and passed over IP. In a pop operation, an outgoing label is not needed as is either accepted or forwarded over IP. The nexthop option is also not mandatory because the FEC IP address could be a local IP address

Attribute Name: enable-pop-label

Attribute Type: uint8

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ilm-entries>
<static-ilm-entry>
  <incoming-label>16</incoming-label>
  <config>
    <incoming-label>16</incoming-label>
  </config>
</static-ilm-entry>
</static-ilm-entries>
</static-lsps>
</rib>
</mpls>

```

```

    </config>
    <pop>
    <config>
        </enable-pop-label>
    </config>
</pop>
</static-ilm-entry>
</static-ilm-entries>
</static-lsps>
</rib>
</mpls>

```

Command Syntax

```
mpls ilm-entry <16-15999> pop
```

Configure incoming label

Incoming Label

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-interface-name

Attribute Type: string

Attribute Name: swapped-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: out-interface-name

Attribute Type: string

Attribute Name: nexthop-ip-address

Attribute Type: inet:ip-address

Attribute Name: fec-prefix

Attribute Type: union

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ilm-entries>
<static-ilm-entry> <!-- operation="delete"-->
    <incoming-label>16</incoming-label>
<config>
    <incoming-label>16</incoming-label>
</config>
<swaps>

```

```

    <swap>
      <in-interface-name>IFNAME</in-interface-name>
      <swapped-label>16</swapped-label>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
      <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
    </swap>
  </swaps>
</static-ilm-entry>
</static-ilm-entries>
</static-lsps>
</rib>
</mpls>

```

Command Syntax

```
mpls ilm-entry <16-15999> swap <16-1048575> IFNAME A.B.C.D (A.B.C.D/M|A.B.C.D
A.B.C.D)
```

Configure in interface name

Incoming Label

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-interface-name

Attribute Type: string

Attribute Name: swapped-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: out-interface-name

Attribute Type: string

Attribute Name: nexthop-ip-address

Attribute Type: inet:ipv4-address

Attribute Name: fec-prefix

Attribute Type: string

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
  <rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
    <static-lsps>
      <static-ilm-entries>
        <static-ilm-entry> <!-- operation="delete"-->
          <incoming-label>16</incoming-label>
        <config>
          <incoming-label>16</incoming-label>

```

```

</config>
<swaps>
<swap>
  <in-interface-name>IFNAME</in-interface-name>
  <swapped-label>16</swapped-label>
  <out-interface-name>IFNAME</out-interface-name>
  <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
  <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
</swap>
</swaps>
</static-ilm-entry>
</static-ilm-entries>
</static-lsps>
</rib>
</mpls>

```

Command Syntax

```
mpls ilm-entry <16-15999> swap <16-1048575> IFNAME X:X::X:X X:X::X:X/M
```

Configure mpls aware rib disabled

Enables or disables MPLS-Aware RIB Feature. Enabled by default

Attribute Name: mpls-aware-rib-disabled

Attribute Type: empty

Netconf edit-config payload

```

<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<global>
<config>
  </mpls-aware-rib-disabled><!-- operation="delete"-->
</config>
</global>
</rib>
</mpls>

```

Command Syntax

```
recursive mpls-resolution disabled
```

IPI-MPLS-BFD

Configure fec address

This attribute is used to configure fec address of the MPLS BFD session

Attribute Name: fec-address

Attribute Type: string

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
<session-group> <!-- operation="delete"-->
  <fec-address>A.B.C.D/M</fec-address>
  <config>
    <fec-address>A.B.C.D/M</fec-address>
    <lsp-type>ldp</lsp-type>
  </config>
  <lsp-type>ldp</lsp-type>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>

```

Command Syntax

```
mpls bfd (ldp|static) A.B.C.D/M
```

Configure lsp ping interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
<session-group>
  <fec-address>A.B.C.D/M</fec-address>
  <config>
    <fec-address>A.B.C.D/M</fec-address>
    <lsp-type>ldp</lsp-type>
  </config>
  <lsp-type>ldp</lsp-type>
  <session-attributes>
  <config>
    <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
  </config>
</session-attributes>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>

```

Command Syntax

```
lsp-ping-interval <0-1000>
```

Configure admin down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
    <session-groups>
      <session-group>
        <fec-address>A.B.C.D/M</fec-address>
        <config>
          <fec-address>A.B.C.D/M</fec-address>
          <lsp-type>ldp</lsp-type>
        </config>
        <lsp-type>ldp</lsp-type>
        <session-attributes>
          <config>
            </admin-down><!-- operation="delete"-->
          </config>
        </session-attributes>
      </session-group>
    </session-groups>
  </mpls-lsp>
</bfd>
```

Command Syntax

```
shutdown
```

Configure detection multiplier

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
  <mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
    <session-groups>
      <session-group>
        <fec-address>A.B.C.D/M</fec-address>
        <config>
```



```

    <fec-address>A.B.C.D/M</fec-address>
    <lsp-type>ldp</lsp-type>
</config>
    <lsp-type>ldp</lsp-type>
<session-attributes>
<intervals>
<interval> <!-- operation="delete"-->
    <detection-multiplier>1</detection-multiplier>
    <config>
        <detection-multiplier>1</detection-multiplier>
        <minimum-rx>3</minimum-rx>
        <minimum-tx>3</minimum-tx>
    </config>
    <minimum-rx>3</minimum-rx>
    <minimum-tx>3</minimum-tx>
</interval>
</intervals>
</session-attributes>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>

```

Command Syntax

```
min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

Configure lsp type

This attribute is used to configure lsp type of the MPLS BFD session

Attribute Name: lsp-type

Attribute Type: enum (static|generic)

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp> <!-- operation="delete"-->
    <lsp-type>static</lsp-type>
    <config>
        <lsp-type>static</lsp-type>
    </config>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>

```

Command Syntax

```
mpls bfd (static|generic) all
```

Configure session-attributes lsp-ping-interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
  <lsp-type>static</lsp-type>
  <config>
    <lsp-type>static</lsp-type>
  </config>
  <session-attributes>
    <config>
      <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
    </config>
  </session-attributes>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>
```

Command Syntax

```
lsp-ping-interval <0-1000>
```

Configure session-attributes admin-down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
  <lsp-type>static</lsp-type>
  <config>
    <lsp-type>static</lsp-type>
  </config>
  <session-attributes>
    <config>
      </admin-down><!-- operation="delete"-->
    </config>
  </session-attributes>
```

```

</mpls-all-lsp>
</mpls-all-lsps>
</bfd>

```

Command Syntax

```
shutdown
```

Configure minimum tx

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
  <lsp-type>static</lsp-type>
  <config>
    <lsp-type>static</lsp-type>
  </config>
  <session-attributes>
  <intervals>
    <interval> <!-- operation="delete"-->
      <detection-multiplier>1</detection-multiplier>
      <config>
        <detection-multiplier>1</detection-multiplier>
        <minimum-rx>3</minimum-rx>
        <minimum-tx>3</minimum-tx>
      </config>
        <minimum-rx>3</minimum-rx>
        <minimum-tx>3</minimum-tx>
      </interval>
    </intervals>
  </session-attributes>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>

```

Command Syntax

```
min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

Configure tunnel name

This attribute is used to configure tunnel-name of the RSVP BFD session

Attribute Name: tunnel-name

Attribute Type: string

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel> <!-- operation="delete"-->
  <tunnel-name>NAME</tunnel-name>
  <config>
    <tunnel-name>WORD</tunnel-name>
    <lsp-type>rsvp</lsp-type>
  </config>
  <lsp-type>rsvp</lsp-type>
</mpls-tunnel>
</mpls-tunnels>
</bfd>

```

Command Syntax

```
mpls bfd (rsvp) tunnel-name NAME
```

Configure session-attributes lsp-ping-interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```

<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
  <tunnel-name>NAME</tunnel-name>
  <config>
    <tunnel-name>WORD</tunnel-name>
    <lsp-type>rsvp</lsp-type>
  </config>
  <lsp-type>rsvp</lsp-type>
  <session-attributes>
    <config>
      <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
    </config>
  </session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>

```

Command Syntax

```
lsp-ping-interval <0-1000>
```

Configure session-attributes admin-down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
  <tunnel-name>NAME</tunnel-name>
  <config>
    <tunnel-name>WORD</tunnel-name>
    <lsp-type>rsvp</lsp-type>
  </config>
  <lsp-type>rsvp</lsp-type>
  <session-attributes>
    <config>
      </admin-down><!-- operation="delete"-->
    </config>
  </session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>
```

Command Syntax

shutdown

Configure minimum rx

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
  <tunnel-name>NAME</tunnel-name>
  <config>
    <tunnel-name>WORD</tunnel-name>
    <lsp-type>rsvp</lsp-type>
  </config>
  <lsp-type>rsvp</lsp-type>
  <session-attributes>
    <intervals>
      <interval> <!-- operation="delete"-->
    </intervals>
  </session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>
```

```

    <detection-multiplier>1</detection-multiplier>
  <config>
    <detection-multiplier>1</detection-multiplier>
    <minimum-rx>3</minimum-rx>
    <minimum-tx>3</minimum-tx>
  </config>
  <minimum-rx>3</minimum-rx>
  <minimum-tx>3</minimum-tx>
</interval>
</intervals>
</session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>

```

Command Syntax

```
min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

IPI-L2VPN-VPWS

Configure pseudowire identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire> <!-- operation="delete"-->
        <peer-address>VPWS_IP_ADDR_T</peer-address>
      </pseudowire>
    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

```

        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        </enable-default-tagged-mode>
    </config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> (A.B.C.D|X:X::X:X)
```

Configure instance name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>

```

```

    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
  </default-tagged>
</config>
  </enable-default-tagged-mode>
  <service-tpid>dot1.q</service-tpid>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure instance type

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>

```



```

        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        </enable-default-tagged-mode>
        <service-tpid>dot1.q</service-tpid>
        </enable-control-word>
    </config>
    </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word

```

Configure peer address

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    
```

```

</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <default-tagged>
  <config>
    </enable-default-tagged-mode>
    <service-tpid>dot1.q</service-tpid>
    </enable-control-word>
    </enable-manual-pseudowire>
  </config>
  </default-tagged>
  </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word manual

```

Configure enable default tagged mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
  </network-instance>
</network-instances>

```

```

    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
  <pseudowire>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
      </enable-default-tagged-mode>
      </enable-control-word>
    </config>
    </default-tagged>
  </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> control-word
```

Configure service tpid

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>

```

```

<instance-name>NAME</instance-name>
<config>
  <instance-name>WORD</instance-name>
  <instance-type>vpws</instance-type>
</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
    <pseudowire-identifier>1</pseudowire-identifier>
  <default-tagged>
    <config>
      </enable-default-tagged-mode>
      <service-tpid>dot1.q</service-tpid>
      </enable-manual-pseudowire>
    </config>
  </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
manual

```

Configure enable manual pseudowire

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">

```

```

<network-instance>
  <instance-name>NAME</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
          <config>
            </enable-default-tagged-mode>
            </enable-manual-pseudowire>
          </config>
        </default-tagged>
      </pseudowire>
    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> manual
```

Configure tunnel name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <tunnel-name>NAME</tunnel-name>
              </enable-manual-pseudowire>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-name NAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <service-tpid>dot1.q</service-tpid>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  tunnel-name NAME
```

Configure enable control word

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <service-tpid>dot1.q</service-tpid>
              </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
            </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          </default-tagged>
        </config>
      </pseudowire>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

    </enable-default-tagged-mode>
    <service-tpid>dot1.q</service-tpid>
    </enable-control-word>
    <tunnel-name>NAME</tunnel-name>
    </enable-manual-pseudowire>
    </config>
  </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-name NAME manual

```

Configure tunnel identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>

```

```

        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        </enable-default-tagged-mode>
        <tunnel-identifier>1</tunnel-identifier>
    </config>
    </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>

```

```

<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<default-tagged>
<config>
  </enable-default-tagged-mode>
  <tunnel-identifier>1</tunnel-identifier>
  </enable-manual-pseudowire>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-id <1-5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>

```

```

    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
          <config>
            </enable-default-tagged-mode>
            <service-tpid>dot1.q</service-tpid>
            <tunnel-identifier>1</tunnel-identifier>
          </config>
        </default-tagged>
      </pseudowire>
    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
    tunnel-id <1-5000>

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <service-tpid>dot1.q</service-tpid>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-id <1-5000>

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <service-tpid>dot1.q</service-tpid>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
              </enable-manual-pseudowire>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-id <1-5000> manual
```


Configure tunnel policy

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <service-tpid>dot1.q</service-tpid>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
            </config>
          </default-tagged>
          <service-tpid>dot1.q</service-tpid>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

        </enable-control-word>
        <tunnel-policy>POLICYNAME</tunnel-policy>
    </config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-select-policy POLICYNAME

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">

```

```

<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<default-tagged>
<config>
  </enable-default-tagged-mode>
  <service-tpid>dot1.q</service-tpid>
  </enable-control-word>
  <tunnel-policy>POLICYNAME</tunnel-policy>
  </enable-manual-pseudowire>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls 12-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
control-word tunnel-select-policy POLICYNAME manual

```

Configure group name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>

```

```

    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
</config>
    <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        </enable-default-tagged-mode>
        <group-name>NAME</group-name>
    </config>
    </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <service-tpid>dot1.q</service-tpid>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200)

```

Configure group identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <service-tpid>dot1.q</service-tpid>
              <group-identifier>1</group-identifier>
              </enable-control-word>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word

```


Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
            </config>
            <group-name>NAME</group-name>
            <service-tpid>dot1.q</service-tpid>
            <group-identifier>1</group-identifier>
          </config>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

        </default-tagged>
    </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295>

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
</network-instances>

```

```

<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <default-tagged>
        <config>
          </enable-default-tagged-mode>
          <group-name>NAME</group-name>
          <service-tpid>dot1.q</service-tpid>
          <group-identifier>1</group-identifier>
          </enable-control-word>
          </enable-manual-pseudowire>
        </config>
      </default-tagged>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <service-tpid>dot1.q</service-tpid>
              <group-identifier>1</group-identifier>
              </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
            </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-name
NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```

<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<default-tagged>
<config>
  </enable-default-tagged-mode>
  <group-name>NAME</group-name>
  <service-tpid>dot1.q</service-tpid>
  <group-identifier>1</group-identifier>
  </enable-control-word>
  <tunnel-name>NAME</tunnel-name>
  </enable-manual-pseudowire>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-name
NAME manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <service-tpid>dot1.q</service-tpid>
              <group-identifier>1</group-identifier>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-id <1-
5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```

<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<default-tagged>
<config>
  </enable-default-tagged-mode>
  <group-name>NAME</group-name>
  <service-tpid>dot1.q</service-tpid>
  <group-identifier>1</group-identifier>
  </enable-control-word>
  <tunnel-identifier>1</tunnel-identifier>
  </enable-manual-pseudowire>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-id <1-
5000> manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
            <default-tagged>
              <config>
                </enable-default-tagged-mode>
                <group-name>NAME</group-name>
                <tunnel-policy>POLICYNAME</tunnel-policy>
              </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-default-tagged-mode>
              <group-name>NAME</group-name>
              <service-tpid>dot1.q</service-tpid>
              <group-identifier>1</group-identifier>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```

<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<default-tagged>
<config>
  </enable-default-tagged-mode>
  <group-name>NAME</group-name>
  <service-tpid>dot1.q</service-tpid>
  <group-identifier>1</group-identifier>
  </enable-control-word>
  <tunnel-policy>POLICYNAME</tunnel-policy>
  </enable-manual-pseudowire>
</config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
select-policy POLICYNAME manual

```

Configure enable interface parameter tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>

```

```

</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <default-tagged>
  <config>
    </enable-flow-label><!-- operation="delete"-->
    <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
    </enable-interface-parameter-tlv><!-- operation="delete"-->
  </config>
  </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive) interface-param-tlv
```

Configure enable static flow label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
</network-instances>

```



```

<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <default-tagged>
        <config>
          </enable-flow-label><!-- operation="delete"-->
          <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
          </enable-static-flow-label><!-- operation="delete"-->
        </config>
      </default-tagged>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive) static
```

Configure flow label direction

Use this attribute to configure flow label direction to transmit, receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>

```

```

        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        </enable-flow-label><!-- operation="delete"-->
        <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
    </config>
    </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

flow-label (both|transmit|receive)

Configure default-tagged service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
            <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
          </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure default-tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              <group-name>NAME</group-name> <!-- operation="delete"-->
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
group-name NAME
```

Configure default-tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
            <default-tagged>
              <config>
                <group-identifier>1</group-identifier> <!-- operation="delete"-->
              </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
group-id <1-4294967295>
```

Configure default-tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
            <default-tagged>
              <config>
                </enable-control-word><!-- operation="delete"-->
              </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>

```

Command Syntax

```
control-word
```

Configure default-tagged tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>

```

```

    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
          <config>
            <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
          </config>
        </default-tagged>
      </pseudowire>
    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

tunnel-name NAME

Configure default-tagged tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>

```

```

        <pseudowire-identifier>1</pseudowire-identifier>
    <default-tagged>
    <config>
        <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
    </config>
</default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
tunnel-select-policy POLICYNAME
```

Configure default-tagged tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```
</network-instance>
</network-instances>
```

Command Syntax

```
tunnel-id <1-5000>
```

Configure default-tagged enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
            <config>
              </enable-manual-pseudowire><!-- operation="delete"-->
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
manual-pseudowire
```

Configure control channel type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
            <default-tagged>
              <config>
                <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
              </config>
            </default-tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
vccv cc-type (type-1|type-2|type-3)
```

Configure control verification type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
```

```

</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <default-tagged>
    <config>
      <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
    </config>
  </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure enable tagged mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>

```

```

<pseudowire> <!-- operation="delete"-->
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
    <config>
      </enable-tagged-mode>
    </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>

```

```

    <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
    <config>
      </enable-tagged-mode>
      </enable-control-word>
    </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>

```

```

<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
    <config>
      </enable-tagged-mode>
      </enable-control-word>
      </enable-manual-pseudowire>
    </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
</network-instances>

```

```

<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <tagged>
        <config>
          </enable-tagged-mode>
          <tunnel-name>NAME</tunnel-name>
        </config>
      </tagged>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">

```

```

<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
    <config>
      </enable-tagged-mode>
      </enable-control-word>
    </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>

```

```

    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <tagged>
        <config>
          </enable-tagged-mode>
          </enable-manual-pseudowire>
        </config>
      </tagged>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
  </network-instance>
</network-instances>

```



```

    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
  <pseudowire>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <tagged>
    <config>
      </enable-tagged-mode>
      </enable-control-word>
      <tunnel-name>NAME</tunnel-name>
      </enable-manual-pseudowire>
    </config>
    </tagged>
  </pseudowire>
  </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> mode tagged control-word tunnel-name NAME
manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
              </enable-manual-pseudowire>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-id <1-5000>
manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-select-
policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
              </enable-manual-pseudowire>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-select-
policy POLICYNAME manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>

```

```

</config>
  <pseudowire-identifier>1</pseudowire-identifier>
</tagged>
<config>
  <group-name>NAME</group-name>
  <group-identifier>1</group-identifier>
  </enable-tagged-mode>
  </enable-control-word>
</config>
</tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|)

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>

```

```

<instance-name>NAME</instance-name>
<config>
  <instance-name>WORD</instance-name>
  <instance-type>vpws</instance-type>
</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
    <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
  <config>
    <group-name>NAME</group-name>
    <group-identifier>1</group-identifier>
    </enable-tagged-mode>
    </enable-control-word>
    </enable-manual-pseudowire>
  </config>
  </tagged>
  </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
control-word manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

    <tagged>
    <config>
      <group-name>NAME</group-name>
      <group-identifier>1</group-identifier>
      </enable-tagged-mode>
      </enable-control-word>
      <tunnel-name>NAME</tunnel-name>
      </enable-manual-pseudowire>
    </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-name NAME manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-id <1-5000>

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
              </enable-manual-pseudowire>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

    </network-instance>
  </network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-id <1-5000> manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <tagged>
  <config>
    <group-name>NAME</group-name>
    <group-identifier>1</group-identifier>
    </enable-tagged-mode>
    </enable-control-word>
    <tunnel-policy>POLICYNAME</tunnel-policy>
  </config>
  </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-select-policy POLICYNAME

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-tagged-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
              </enable-manual-pseudowire>
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
(control-word|) tunnel-select-policy POLICYNAME manual
```

Configure enable flow label

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-flow-label><!-- operation="delete"-->
              <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
              </enable-interface-parameter-tlv><!-- operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
flow-label (both|transmit|receive) interface-param-tlv
```

Configure tagged enable-static-flow-label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-flow-label><!-- operation="delete"-->
              <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
              </enable-static-flow-label><!-- operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
flow-label (both|transmit|receive) static
```

Configure tagged flow-label-direction

Use this attribute to configure flow label direction to transmit, receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```

<network-instance>
  <instance-name>NAME</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
        <tagged>
          <config>
            </enable-flow-label><!-- operation="delete"-->
            <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
          </config>
        </tagged>
      </pseudowire>
    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

flow-label (both|transmit|receive)

Configure tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
</network-instances>

```

```

<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <tagged>
        <config>
          <group-name>NAME</group-name> <!-- operation="delete"-->
        </config>
      </tagged>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

group-name NAME

Configure tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>

```

```

    <tagged>
    <config>
        <group-identifier>1</group-identifier> <!-- operation="delete"-->
    </config>
</tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
group-id <1-4294967295>
```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              </enable-control-word><!-- operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

control-word

Configure tagged tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

tunnel-name NAME

Configure tagged tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
tunnel-select-policy POLICYNAME
```

Configure tagged tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
```

```

    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
</config>
    <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
        <pseudowire-identifier>1</pseudowire-identifier>
    <tagged>
    <config>
        <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
    </config>
    </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
tunnel-id <1-5000>
```

Configure tagged enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
      <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>

```



```

        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <tagged>
    <config>
        </enable-manual-pseudowire><!-- operation="delete"-->
    </config>
    </tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

manual-pseudowire

Configure tagged control-channel-type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vccv cc-type (type-1|type-2|type-3)
```

Configure tagged control-verification-type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
            <config>
              <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
            </config>
          </tagged>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure enable raw mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire> <!-- operation="delete"-->
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
              </enable-control-word>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
              </enable-control-word>
              </enable-manual-pseudowire>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </raw>
        </pseudowire>
```

```

    </pseudowires>
  </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>

```

```

    <config>
      </enable-raw-mode>
      </enable-control-word>
      <tunnel-name>NAME</tunnel-name>
      </enable-manual-pseudowire>
    </config>
  </raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-name NAME
manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>

```



```

    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <raw>
    <config>
        </enable-raw-mode>
        </enable-control-word>
        <tunnel-identifier>1</tunnel-identifier>
    </config>
    </raw>
    </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>NAME</instance-name>
    </network-instance>
</network-instances>

```

```

    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
</config>
    <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
<raw>
<config>
    </enable-raw-mode>
    </enable-control-word>
    <tunnel-identifier>1</tunnel-identifier>
    </enable-manual-pseudowire>
    </config>
</raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-id <1-5000>
manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-select-policy
POLICYNAME

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
              </enable-manual-pseudowire>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-select-policy
POLICYNAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-raw-mode>
              </enable-control-word>
            </config>
```

```

        </raw>
    </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|)

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>

```

```

    <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
    <pseudowire-identifier>1</pseudowire-identifier>
  <raw>
  <config>
    <group-name>NAME</group-name>
    <group-identifier>1</group-identifier>
    </enable-raw-mode>
    </enable-control-word>
    </enable-manual-pseudowire>
  </config>
  </raw>
  </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <raw>
          <config>
            <group-name>NAME</group-name>
            <group-identifier>1</group-identifier>
            </enable-raw-mode>
            </enable-control-word>
            <tunnel-name>NAME</tunnel-name>
            </enable-manual-pseudowire>
          </config>
        </raw>
      </pseudowire>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

        </pseudowire>
    </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-name NAME manual

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>

```

```

<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
<raw>
<config>
  <group-name>NAME</group-name>
  <group-identifier>1</group-identifier>
  </enable-raw-mode>
  </enable-control-word>
  <tunnel-identifier>1</tunnel-identifier>
</config>
</raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-id <1-5000>

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
              </enable-manual-pseudowire>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-id <1-5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
              </enable-raw-mode>
              </enable-control-word>
              <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

```

        </pseudowire>
    </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-select-policy POLICYNAME

```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
  </network-instance>
</network-instances>

```

```

    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
      <raw>
        <config>
          <group-name>NAME</group-name>
          <group-identifier>1</group-identifier>
          </enable-raw-mode>
          </enable-control-word>
          <tunnel-policy>POLICYNAME</tunnel-policy>
          </enable-manual-pseudowire>
        </config>
      </raw>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
(control-word|) tunnel-select-policy POLICYNAME manual

```

Configure raw enable-interface-parameter-tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
  </network-instance>
</network-instances>

```

```

</config>
  <instance-type>vpws</instance-type>
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
  <peer-address>VPWS_IP_ADDR_T</peer-address>
  <config>
    <peer-address>VPWS_IP_ADDR_T</peer-address>
    <pseudowire-identifier>1</pseudowire-identifier>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <raw>
    <config>
      </enable-flow-label><!-- operation="delete"-->
      <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
      </enable-interface-parameter-tlv><!-- operation="delete"-->
    </config>
  </raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive) interface-param-tlv
```

Configure raw enable-static-flow-label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
</network-instances>

```



```

<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowires>
    <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
      </config>
      <pseudowire-identifier>1</pseudowire-identifier>
      <raw>
        <config>
          </enable-flow-label><!-- operation="delete"-->
          <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
          </enable-static-flow-label><!-- operation="delete"-->
        </config>
      </raw>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive) static
```

Configure raw flow-label-direction

Use this attribute to configure flow label direction to transmit, receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>

```

```

        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
<raw>
<config>
    </enable-flow-label><!-- operation="delete"-->
    <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
</config>
</raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

flow-label (both|transmit|receive)

Configure raw group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
      <raw>
      <config>
        <group-name>NAME</group-name> <!-- operation="delete"-->

```

```

    </config>
  </raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
group-name NAME
```

Configure raw group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        </raw>
        <config>
          <group-identifier>1</group-identifier> <!-- operation="delete"-->
        </config>
      </raw>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
group-id <1-4294967295>
```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
          <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              </enable-control-word><!-- operation="delete"-->
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
control-word
```

Configure raw tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
tunnel-name NAME
```

Configure raw tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
```

```

    <instance-type>vpws</instance-type>
  </config>
  <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
        <pseudowire-identifier>1</pseudowire-identifier>
      <raw>
        <config>
          <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
        </config>
      </raw>
    </pseudowire>
  </pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
tunnel-select-policy POLICYNAME
```

Configure raw tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>

```

```

        <pseudowire-identifier>1</pseudowire-identifier>
    </config>
    <pseudowire-identifier>1</pseudowire-identifier>
    <raw>
    <config>
        <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
    </config>
    </raw>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
tunnel-id <1-5000>
```

Configure raw enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
          <config>
            </enable-manual-pseudowire><!-- operation="delete"-->
          </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

manual-pseudowire

Configure raw control-channel-type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

vccv cc-type (type-1|type-2|type-3)

Configure raw control-verification-type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
        <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
          </config>
            <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
            <config>
              <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
            </config>
          </raw>
        </pseudowire>
      </pseudowires>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure attachment group identifier

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <service-tpid>dot1.q</service-tpid>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          </enable-control-word>
        </pseudowire-fec129>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) control-word
```

Configure source attachment individual identifier

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <service-tpid>dot1.q</service-tpid>
          </enable-control-word>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-name>NAME</tunnel-name>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-name NAME
```

Configure target attachment individual identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <service-tpid>dot1.q</service-tpid>
          </enable-control-word>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <tunnel-identifier>1</tunnel-identifier>
        </pseudowire-fec129>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-id <1-5000>
```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <service-tpid>dot1.q</service-tpid>
          </enable-control-word>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-policy>POLICYNAME</tunnel-policy>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-select-policy POLICYNAME
```

Configure pseudowire-fec129 enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <group-name>NAME</group-name>
          <service-tpid>dot1.q</service-tpid>
          <group-identifier>1</group-identifier>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        </enable-control-word>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-name NAME service-
tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word
```

Configure pseudowire-fec129 tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following features are enabled: Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <group-name>NAME</group-name>
          <service-tpid>dot1.q</service-tpid>
          <group-identifier>1</group-identifier>
          </enable-control-word>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
```

```

        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-name>NAME</tunnel-name>
    </pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
name NAME

```

Configure pseudowire-fec129 tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
        identifier>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```



```

    <config>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <group-name>NAME</group-name>
        <service-tpid>dot1.q</service-tpid>
        <group-identifier>1</group-identifier>
        </enable-control-word>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
    <tunnel-identifier>1</tunnel-identifier>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
id <1-5000>

```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <group-name>NAME</group-name>
          <service-tpid>dot1.q</service-tpid>
          <group-identifier>1</group-identifier>
          </enable-control-word>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-policy>POLICYNAME</tunnel-policy>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-name NAME service-
tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
select-policy POLICYNAME

```

Configure pseudowire-fec129 group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <group-name>NAME</group-name> <!-- operation="delete"-->
        </pseudowire-fec129>
      </vpws-instance>
    </network-instance>
  </network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-name NAME
```

Configure pseudowire-fec129 group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>

```

```

        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <group-identifier>1</group-identifier> <!-- operation="delete"-->
    </pseudowire-fec129>
    </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-id <1-4294967295>
```

Configure pseudowire-fec129 enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>NAME</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpws</instance-type>
        </config>
        <instance-type>vpws</instance-type>
        <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
        <pseudowire-fec129>
            <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>

```

```

    <config>
      <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
    </enable-control-word><!-- operation="delete"-->
  </pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure pseudowire-fec129 service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
    </pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200)

```

Configure pseudowire-fec129 tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-name NAME
```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
        </pseudowire-fec129>
      </vpws-instance>
    </network-instance>
  </network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-select-policy
POLICYNAME
```

Configure pseudowire-fec129 tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
        identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
          individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
          individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
          individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
          <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
        </pseudowire-fec129>
      </vpws-instance>
    </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-id <1-5000>
```


Configure tagged enable-tagged-mode

This attribute is used to enable tagged mode of pseudowire. This can be enabled at creation time

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <tagged>
          <config>
            </enable-control-word>
            </enable-tagged-mode>
          </config>
        </tagged>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME taii NAME control-word
```

Configure tagged tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following features are enabled: Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <tagged>
          <config>
            </enable-control-word>
            </enable-tagged-mode>
            <tunnel-name>NAME</tunnel-name>
          </config>
        </tagged>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
```

```
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word tunnel-name
NAME
```

Configure tagged tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <tagged>
          <config>
            </enable-control-word>
            </enable-tagged-mode>
```

```

        <tunnel-identifier>1</tunnel-identifier>
    </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word tunnel-id
<1-5000>

```

Configure tagged tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>

```

```

        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    </tagged>
    <config>
        </enable-control-word>
        </enable-tagged-mode>
        <tunnel-policy>POLICYNAME</tunnel-policy>
    </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME control-word tunnel-
select-policy POLICYNAME

```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  </network-instance>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>

```

```

        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <tagged>
    <config>
        <group-name>NAME</group-name>
        <group-identifier>1</group-identifier>
        </enable-tagged-mode>
        </enable-control-word>
    </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> control-word

```

Configure tagged tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
      <tagged>
        <config>
          <group-name>NAME</group-name>
          <group-identifier>1</group-identifier>
          </enable-tagged-mode>
          </enable-control-word>
          <tunnel-name>NAME</tunnel-name>
        </config>
      </tagged>
    </pseudowire-fec129>
  </vpws-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> control-word tunnel-name NAME
```

Configure tagged tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <tagged>
        <config>
          <group-name>NAME</group-name>
          <group-identifier>1</group-identifier>
          </enable-tagged-mode>
```



```

        </enable-control-word>
        <tunnel-identifier>1</tunnel-identifier>
    </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> control-word tunnel-id <1-5000>

```

Configure tagged tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>

```

```

    <config>
      <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
  <tagged>
    <config>
      <group-name>NAME</group-name>
      <group-identifier>1</group-identifier>
      </enable-tagged-mode>
      </enable-control-word>
      <tunnel-policy>POLICYNAME</tunnel-policy>
    </config>
  </tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> control-word tunnel-select-policy POLICYNAME

```

Configure tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">

```

```

    <pseudowire-fec129>
      <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
      <config>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    </tagged>
  </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-name NAME
```

Configure tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>

```

```

    <config>
      <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
  <tagged>
    <config>
      <group-identifier>1</group-identifier> <!-- operation="delete"-->
    </config>
  </tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-id <1-4294967295>
```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>

```

```

        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
    <tagged>
    <config>
        </enable-control-word><!-- operation="delete"-->
    </config>
    </tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME taii NAME control-word
```

Configure tagged service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>

```

```

    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
    <tagged>
    <config>
        <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
    </config>
    </tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200)

```

Configure tagged tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

```

        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <tagged>
    <config>
        <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
    </config>
    </tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-name NAME
```

Configure tagged tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>

```

```

        <peer-address>A.B.C.D</peer-address>
    </tagged>
</config>
    <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
</config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-select-policy
POLICYNAME

```

Configure tagged tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </tagged>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```



```

    <config>
        <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
    </config>
</tagged>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-id <1-5000>
```

Configure raw enable-raw-mode

This attribute is used to enable raw mode of pseudowire. This can be enabled at creation time

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <raw>
        <config>

```

```

        </enable-control-word>
        </enable-raw-mode>
    </config>
</raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
```

Configure raw tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>

```

```

        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        </enable-control-word>
        </enable-raw-mode>
        <tunnel-name>NAME</tunnel-name>
    </config>
</raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
tunnel-name NAME

```

Configure raw tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>

```

```

        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
    <attachment-group-identifier>NAME</attachment-group-identifier>
    <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        </enable-control-word>
        </enable-raw-mode>
        <tunnel-identifier>1</tunnel-identifier>
    </config>
    </raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME control-word mode raw
tunnel-id <1-5000>

```

Configure raw tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">

```

```

    <pseudowire-fec129>
      <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
      <config>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    <raw>
      <config>
        </enable-control-word>
        </enable-raw-mode>
        <tunnel-policy>POLICYNAME</tunnel-policy>
      </config>
    </raw>
  </pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
tunnel-select-policy POLICYNAME

```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <raw>
          <config>
            <group-name>NAME</group-name>
            <group-identifier>1</group-identifier>
            </enable-raw-mode>
            </enable-control-word>
          </config>
        </raw>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> mode raw control-word

```

Configure raw tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
      </raw>
    </config>
  </network-instance>
</pseudowire-fec129>
```

```

</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> mode raw control-word tunnel-name NAME

```

Configure raw tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>

```



```

        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    </config>
    <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        <group-name>NAME</group-name>
        <group-identifier>1</group-identifier>
        </enable-raw-mode>
        </enable-control-word>
        <tunnel-identifier>1</tunnel-identifier>
    </config>
    </raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> mode raw control-word tunnel-id <1-5000>

```

Configure raw tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <raw>
          <config>
            <group-name>NAME</group-name>
            <group-identifier>1</group-identifier>
            </enable-raw-mode>
            </enable-control-word>
            <tunnel-policy>POLICYNAME</tunnel-policy>
          </config>
        </raw>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
<1-4294967295> mode raw control-word tunnel-select-policy POLICYNAME
```

Configure raw group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <raw>
          <config>
            <group-name>NAME</group-name> <!-- operation="delete"-->
          </config>
        </raw>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME group-name NAME
```

Configure raw group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        </config>
          <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
          <attachment-group-identifier>NAME</attachment-group-identifier>
          <peer-address>A.B.C.D</peer-address>
        <raw>
          <config>
            <group-identifier>1</group-identifier> <!-- operation="delete"-->
          </config>
        </raw>
      </pseudowire-fec129>
    </vpws-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME taii NAME group-id <1-4294967295>
```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>

```

```

    <instance-name>NAME</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vpws</instance-type>
  </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <pseudowire-fec129>
    <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
    <config>
      <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    </config>
      <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
      <attachment-group-identifier>NAME</attachment-group-identifier>
      <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
      </enable-control-word><!-- operation="delete"-->
    </config>
  </raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure raw service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```

  <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
      <instance-name>NAME</instance-name>
      <config>
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>

```

```

    </config>
    <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    </raw>
    <config>
        <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
    </config>
</raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME service-tpid
(dot1.q|dot1.ad|0x9100|0x9200)

```

Configure raw tunnel-name

Use this attribute to specify the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>NAME</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpws</instance-type>
        </config>
        <instance-type>vpws</instance-type>
    </network-instance>
</network-instances>

```

```

    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>
        <target-attachment-individual-identifier>NAME</target-attachment-individual-
individual-identifier>
        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
    </config>
    </raw>
    </pseudowire-fec129>
    </vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-name NAME
```

Configure raw tunnel-policy

Use this attribute to specify transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>NAME</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpws</instance-type>
        </config>
        <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>

```

```

        <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
    </config>
</raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```

mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-select-policy
POLICYNAME

```

Configure raw tunnel-identifier

Use this attribute to specify the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>NAME</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
    </config>
    <instance-type>vpws</instance-type>
  <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowire-fec129>
      <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
    </pseudowire-fec129>
  </vpws-instance>
</network-instance>
</network-instances>

```



```

        <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
        </config>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <peer-address>A.B.C.D</peer-address>
    <raw>
    <config>
        <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
    </config>
</raw>
</pseudowire-fec129>
</vpws-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME sai NAME tai NAME tunnel-id <1-5000>
```

Configure service template

This attribute is used to configure service-template for vc-mode

Attribute Name: service-template

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (standby|revertive)

Netconf edit-config payload

```

<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<pseudowire-modes>
<pseudowire-mode>
    <service-template>WORD</service-template>
    <config>
        <service-template>NAME</service-template>
        <mode>standby</mode>
    </config>
</pseudowire-mode>

```

```
</pseudowire-modes>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
vc-mode (standby|revertive) service-template NAME
```

Configure enable

This attribute is used to enable VPWS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpws-access>
      <config>
        </enable>
      </config>
    </vpws-access>
  </interface>
</interfaces>
</vpws>
```

Command Syntax

```
access-if-vpws
```

Configure revertive timer

This attribute is used to configure the vpws vc revertive timer. Default value is 0

This command is supported when following feature are enabled Subinterface feature

Attribute Name: revertive-timer

Attribute Type: uint16

Attribute Range: 0-3600

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <vpws-access>
    <config>
      </enable-revertive-mode><!-- operation="delete"-->
      <revertive-timer>0</revertive-timer> <!-- operation="delete"-->
    </config>
  </vpws-access>
</vpws>
```

Command Syntax

```
vc-mode revertive (timer <0-3600>|)
```

Configure mac withdrawal send on vpws vc switchover

This attribute is used to configure mac withdrawal on vpws vc switchover

This command is supported when following feature are enabled Subinterface feature

Attribute Name: mac-withdrawal-send-on-vpws-vc-switchover

Attribute Type: empty

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <vpws-access>
    <config>
      </mac-withdrawal-send-on-vpws-vc-switchover><!-- operation="delete"-->
    </config>
  </vpws-access>
</vpws>
```

Command Syntax

```
mac-withdrawal flush-on-vpws-vc-switchover
```

Configure vpws name

This attribute uniquely identifies a VPWS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: vpws-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpws-access>
      <bindings>
        <binding> <!-- operation="delete"-->
          <vpws-name>NAME</vpws-name>
          <config>
            <vpws-name>WORD</vpws-name>
            <pseudowire-link-mode>primary</pseudowire-link-mode>
          </config>
        </binding>
      </bindings>
    </vpws-access>
  </interface>
</interfaces>
</vpws>
```

Command Syntax

```
mpls-l2-circuit NAME ((primary|secondary)|)
```

Configure pseudowire name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```

<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<service-template-mappings>
<service-template-mapping>
  <pseudowire-name>NAME</pseudowire-name>
  <config>
    <pseudowire-name>WORD</pseudowire-name>
    <service-template-name>NAME</service-template-name>
    <pseudowire-link-mode>primary</pseudowire-link-mode>
  </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>

```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME ((primary|secondary)|)
```

Configure name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: cos-to-queue-profile-name

Attribute Type: string

Attribute Name: queue-to-cos-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```

<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
</vpws>

```

```

    </config>
  <service-template-mappings>
  <service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
      <pseudowire-name>WORD</pseudowire-name>
      <service-template-name>NAME</service-template-name>
      <cos-to-queue-profile-name>NAME</cos-to-queue-profile-name>
      <queue-to-cos-profile-name>NAME</queue-to-cos-profile-name>
      <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
  </service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>

```

Command Syntax

```

mpls-l2-circuit NAME service-template NAME cos-to-queue NAME queue-color-to-cos
NAME ((primary|secondary)|)

```

Configure service template name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: cos-to-queue-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```

<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  <service-template-mappings>
  <service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
      <pseudowire-name>WORD</pseudowire-name>
      <service-template-name>NAME</service-template-name>
    </config>
  </service-template-mapping>
  </service-template-mappings>
  </interface>
  </interfaces>
</vpws>

```

```

        <cos-to-queue-profile-name>NAME</cos-to-queue-profile-name>
        <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>

```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME cos-to-queue NAME ((primary|secondary)|)
```

Configure queue to cos profile name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: queue-to-cos-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```

<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
</service-template-mappings>
<service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
        <pseudowire-name>WORD</pseudowire-name>
        <service-template-name>NAME</service-template-name>
        <queue-to-cos-profile-name>NAME</queue-to-cos-profile-name>
        <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>

```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME queue-color-to-cos NAME
((primary|secondary) |)
```

Configure access interface name

This attribute is used to configure customer network interface for static VC fib entry

Attribute Name: access-interface-name

Attribute Type: string

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: outgoing-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: provider-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<static-forwarding>
<forwarding-information-bases>
<forwarding-information-base>
  <nexthop-address>CML_IP_ADDR_T</nexthop-address>
  <config>
    <nexthop-address>CML_IP_ADDR_T</nexthop-address>
    <pseudowire-identifier>1</pseudowire-identifier>
    <incoming-label>16</incoming-label>
    <outgoing-label>16</outgoing-label>
    <provider-interface-name>IFNAME</provider-interface-name>
  </config>
  <pseudowire-identifier>1</pseudowire-identifier>
  <access-interface-name>NAME</access-interface-name>
</forwarding-information-base>
</forwarding-information-bases>
</static-forwarding>
</vpws>
```

Command Syntax

```
mpls l2-circuit-fib-entry <1-4294967295> <16-15999> <16-15999> (A.B.C.D|X:X::X:X)
IFNAME NAME
```

clear mpls l2-circuit NAME statistics

Attribute Name: pseudowire-name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-l2-circuit-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpws">
  <pseudowire-name>NAME</pseudowire-name>
</clear-mpls-l2-circuit-statistics>
```

Command Syntax

```
clear mpls l2-circuit NAME statistics
```

clear mpls l2-circuit NAME statistics (access-port|network-port)

Attribute Name: port-pseudowire-name

Attribute Type: string

Attribute Name: port-type

Attribute Type: enum (access-port|network-port)

Default Value: network-port

Netconf RPC payload

```
<clear-mpls-l2-circuit-port-statistics xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-l2vpn-vpws">
  <port-pseudowire-name>NAME</port-pseudowire-name>
  <port-type>network-port</port-type>
</clear-mpls-l2-circuit-port-statistics>
```

Command Syntax

```
clear mpls l2-circuit NAME statistics (access-port|network-port)
```

vc-switchover NAME NAME

Attribute Name: primary-pseudowire

Attribute Type: string

Attribute Name: secondary-pseudowire

Attribute Type: string

Netconf RPC payload

```
<pseudowire-manual-switchover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
l2vpn-vpws">
  <primary-pseudowire>NAME</primary-pseudowire>
  <secondary-pseudowire>NAME</secondary-pseudowire>
</pseudowire-manual-switchover>
```

Command Syntax

```
vc-switchover NAME NAME
```

IPI-SEGMENT-ROUTING

Configure enable

Enable segment routing

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <config>
    </enable>
  </config>
</segment-routing>
```

Command Syntax

```
segment-routing
```

Configure flex algo enable

Enable flexible algorithm for segment routing polices

Attribute Name: flex-algo-enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <config>
    </flex-algo-enable><!-- operation="delete"-->
  </config>
</segment-routing>
```

Command Syntax

```
capability flex-algo routing
```

Configure adj sid absolute

This attribute is used to configure Segment Route adjacency SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: adj-sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<adjacency-segments>
<adjacency-segment>
  <adj-sid-proto>isis</adj-sid-proto>
  <config>
    <adj-sid-proto>isis</adj-sid-proto>
  </config>
  <adj-sid-absolute>16</adj-sid-absolute> <!-- operation="delete"-->
</adjacency-segment>
</adjacency-segments>
</interface>
</interfaces>
</segment-routing>

```

Command Syntax

```
adjacency-sid (isis|ospf) absolute <16-1048575>
```

Configure adj sid index

This attribute is used to configure Segment Route adjacency SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: adj-sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<adjacency-segments>
<adjacency-segment>
  <adj-sid-proto>isis</adj-sid-proto>
  <config>
    <adj-sid-proto>isis</adj-sid-proto>
  </config>
  <adj-sid-index>0</adj-sid-index> <!-- operation="delete"-->
</adjacency-segment>
</adjacency-segments>
</interface>

```

```
</interfaces>
</segment-routing>
```

Command Syntax

```
adjacency-sid (isis|ospf) index <0-1048575>
```

Configure sid absolute

This attribute is used to configure Segment Route Prefix SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
  <algorithm-num>spf</algorithm-num>
  <config>
    <algorithm-num>spf</algorithm-num>
    <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
    <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
  </config>
  <sid-absolute>16</sid-absolute> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid absolute <16-1048575> ((explicit-null|no-php)|) ((n-flag-clear)|)
```

Configure sid index

This attribute is used to configure Segment Route Prefix SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <prefix-segment-algorithms>
      <prefix-segment-algorithm>
        <algorithm-num>spf</algorithm-num>
        <config>
          <algorithm-num>spf</algorithm-num>
          <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
          <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
        </config>
        <sid-index>0</sid-index> <!-- operation="delete"-->
      </prefix-segment-algorithm>
    </prefix-segment-algorithms>
  </interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid index <0-1048575> ((explicit-null|no-php)|) ((n-flag-clear)|)
```

Configure name

This attribute is used to configure Segment Route Prefix SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <prefix-segment-algorithms>
      <prefix-segment-algorithm>
        <algorithm-num>spf</algorithm-num>
        <config>
          <algorithm-num>spf</algorithm-num>
          <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
          <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
        </config>
        <sid-absolute>16</sid-absolute> <!-- operation="delete"-->
      </prefix-segment-algorithm>
    </prefix-segment-algorithms>
  </interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid algorithm-num (spf|strict-spf) absolute <16-1048575> ((explicit-null|no-
php)|) ((n-flag-clear)|)
```

Configure algorithm num

This attribute is used to configure Segment Route Prefix SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
  <algorithm-num>spf</algorithm-num>
  <config>
    <algorithm-num>spf</algorithm-num>
    <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
    <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
  </config>
  <sid-index>0</sid-index> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>

```

Command Syntax

```

prefix-sid algorithm-num (spf|strict-spf) index <0-1048575> ((explicit-null|no-
php)|) ((n-flag-clear)|)

```

Configure enable preference

preference for segment routing label over LDP

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable-preference

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<sr-prefer-over-ldp>
<config>
  </enable-preference><!-- operation="delete"-->
</config>
</sr-prefer-over-ldp>
</sr-mpls>
</segment-routing>

```

Command Syntax

```

mpls sr-prefer

```

Configure mapping-server enable

To enable mapping server configuration

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <bindings>
      <mapping-server>
        <config> <!-- operation="delete"-->
          </enable>
        </config>
      </mapping-server>
    </bindings>
  </sr-mpls>
</segment-routing>
```

Command Syntax

```
mapping-server
```

Configure preference

preference for segment routing mapping server

This command is supported when following feature are enabled sr mpls feature

Attribute Name: preference

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <bindings>
      <mapping-server>
        <srms-preferenece>
          <config>
            <preference>1</preference> <!-- operation="delete"-->
          </config>
        </srms-preferenece>
      </mapping-server>
    </bindings>
  </sr-mpls>
</segment-routing>
```

Command Syntax

```
srms preference <1-255>
```

Configure prefix-sid-map-ipv4 enable

To enable ipv4 mapping server configuration

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <bindings>
      <mapping-server>
        <prefix-sid-map-ipv4>
          <config> <!-- operation="delete"-->
            </enable>
          </config>
        </prefix-sid-map-ipv4>
      </mapping-server>
    </bindings>
  </sr-mpls>
</segment-routing>
```

Command Syntax

```
prefix-sid-map address-family ipv4
```

Configure start address

connected prefix for prefix-sid

This command is supported when following feature are enabled sr mpls feature

Attribute Name: start-address

Attribute Type: string

Attribute Name: attached

Attribute Type: boolean

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <bindings>
      <mapping-server>
        <prefix-sid-map-ipv4>
          <mapping-entries>
            <mapping-entry> <!-- operation="delete"-->
              <start-sid>0</start-sid>
            </mapping-entry>
          </mapping-entries>
        </prefix-sid-map-ipv4>
      </mapping-server>
    </bindings>
  </sr-mpls>
</segment-routing>
```

```

    <config>
      <start-sid>0</start-sid>
      <start-address>A.B.C.D/M</start-address>
      <attached>true</attached>
    </config>
    <start-address>A.B.C.D/M</start-address>
  </mapping-entry>
</mapping-entries>
</prefix-sid-map-ipv4>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>

```

Command Syntax

```
A.B.C.D/M <0-1048575> attached
```

Configure start sid

connected prefix for prefix-sid

This command is supported when following feature are enabled sr mpls feature

Attribute Name: start-address

Attribute Type: string

Attribute Name: range

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: attached

Attribute Type: boolean

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <bindings>
      <mapping-server>
        <prefix-sid-map-ipv4>
          <mapping-entries>
            <mapping-entry> <!-- operation="delete"-->
              <start-sid>0</start-sid>
              <config>
                <start-sid>0</start-sid>
                <start-address>A.B.C.D/M</start-address>
                <range>1</range>
                <attached>true</attached>
              </config>
              <start-address>A.B.C.D/M</start-address>
            </mapping-entry>
          </mapping-entries>

```

```
</prefix-sid-map-ipv4>  
</mapping-server>  
</bindings>  
</sr-mpls>  
</segment-routing>
```

Command Syntax

```
A.B.C.D/M <0-1048575> range <1-65535> (attached|)
```

Configure end

SRGB end range

This command is supported when following feature are enabled sr mpls feature

Attribute Name: end

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: start

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">  
  <sr-mpls>  
    <global-block>  
      <config>  
        <start>16</start>  
        <end>16</end>  
      </config>  
    </global-block>  
  </sr-mpls>  
</segment-routing>
```

Command Syntax

```
global block <16-1048575> <16-1048575>
```

Configure start

End range for srlb-config

This command is supported when following feature are enabled sr mpls feature

Attribute Name: end

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: start

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <sr-mpls>
    <local-block>
      <config>
        <start>16</start>
        <end>16</end>
      </config>
    </local-block>
  </sr-mpls>
</segment-routing>
```

Command Syntax

```
local block <16-1048575> <16-1048575>
```

Configure traffic-engineering enable

Enable SR traffic engineering

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <config>
      </enable>
    </config>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
traffic-engineering
```

Configure fast reroute enable

Enable fast reroute for traffic engineering polices

Attribute Name: fast-reroute-enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <config>
      </fast-reroute-enable><!-- operation="delete"-->
    </config>
  </traffic-engineering>
```

```
</segment-routing>
```

Command Syntax

```
policy-fast-reroute-enable
```

Configure list name

Segment-list name

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <attributes>
      <segment-lists>
        <segment-list> <!-- operation="delete"-->
          <list-name>WORD</list-name>
          <config>
            <list-name>WORD</list-name>
          </config>
        </segment-list>
      </segment-lists>
    </attributes>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
segment-list WORD
```

Configure sid value

MPLS label value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-value

Attribute Type: uint32

Attribute Range: 0-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <attributes>
      <segment-lists>
        <segment-list>
          <list-name>WORD</list-name>
          <config>
            <list-name>WORD</list-name>
          </config>
        </segment-list>
      </segment-lists>
    </attributes>
  </traffic-engineering>
</segment-routing>
```

```

    </config>
  <segments>
    <segment>
      <type>segment-type-1</type>
      <config>
        <type>segment-type-1</type>
        <segment-index>1</segment-index>
      </config>
      <segment-index>1</segment-index>
    <segment-type-1>
      <config>
        <sid-value>0</sid-value>
      </config>
    </segment-type-1>
  </segment>
</segments>
</segment-list>
</segment-lists>
</attributes>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
index <1-65535> (segment-type-1) <0-1048575>
```

Configure prefix

SRV6 Prefix

This command is supported when following feature are enabled srv6 feature

Attribute Name: prefix

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <attributes>
      <segment-lists>
        <segment-list>
          <list-name>WORD</list-name>
          <config>
            <list-name>WORD</list-name>
          </config>
        </segment-list>
      </segment-lists>
    </attributes>
  </traffic-engineering>
  <segment-v6>
    <type>segment-type-2</type>
    <config>
      <type>segment-type-2</type>
      <segment-index>1</segment-index>
    </config>
  </segment-v6>
</segment-routing>

```

```

        <segment-index>1</segment-index>
    <segment-type-2>
    <config>
        <prefix>X:X::X:X</prefix>
    </config>
</segment-type-2>
</segment-v6>
</segments>
</segment-list>
</segment-lists>
</attributes>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
index <1-65535> (segment-type-2) X:X::X:X
```

Configure end point

Policy end point IP address

Attribute Name: end-point

Attribute Type: inet:ip-address

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <policy-keys>
        <policy-key> <!-- operation="delete"-->
          <end-point>CML_IP_ADDR_T</end-point>
          <config>
            <end-point>CML_IP_ADDR_T</end-point>
            <color>1</color>
          </config>
          <color>1</color>
        </policy-key>
      </policy-keys>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
color <1-4294967295> end-point (A.B.C.D|X:X::X:X)
```

Configure policies name

User friendly name of the SR Policy

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy> <!-- operation="delete"-->
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
policy WORD
```

Configure admin state

SR policy administrative state, true for enabled, false for disabled

Attribute Name: admin-state

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        </admin-state><!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
admin-state down
```

Configure explicit null

To set explicit null behaviour for the policy

Attribute Name: explicit-null

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <explicit-null>ipv4</explicit-null> <!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
explicit-null (ipv4)
```

Configure cspf retry limit

Limit on the number of times a dynamic candidate path will retry to calculate segment-list

Attribute Name: cspf-retry-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <cspf-retry-limit>1</cspf-retry-limit> <!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Interval between two successive retries for calculating segment list of a dynamic candidate path using CSPF

Attribute Name: cspf-retry-interval

Attribute Type: uint32

Attribute Range: 1-600

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
cspf-retry-interval <1-600>
```

Configure entropy erld

Setting ERLD to enable Entropy capability (only applicable for explicit policy)

Attribute Name: entropy-erld

Attribute Type: uint8

Attribute Range: 3-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <entropy-erld>3</entropy-erld> <!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
entropy-erld <3-255>
```

Configure bsid value

configurable value for static binding sid

Attribute Name: bsid-value

Attribute Type: uint32

Attribute Range: 16-15999

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <bsid-value>16</bsid-value> <!-- operation="delete"-->
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
binding-sid mpls label <16-15999>
```

Configure discriminator

Candidate path distinguisher, it's taken as a unique identifier for a Local candidate path

Attribute Name: discriminator

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <candidate-paths>
          <candidate-path> <!-- operation="delete"-->
            <originator>WORD</originator>
          </candidate-path>
        </candidate-paths>
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>
```

```

    <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
    </config>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
candidate-path <1-65535>
```

Configure protocol origin

Candidate path preference

Attribute Name: preference

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
          </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
            <preference>1</preference> <!-- operation="delete"-->
          </candidate-path>
        </candidate-paths>
      </policy>
    </policies>
  </traffic-engineering>
</segment-routing>

```

```

</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
preference <1-65535>
```

Configure pcep

Dynamic candidate path properties of PCEP

Attribute Name: pcep

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
          <dynamic>
            <config>
              <pcep><!-- operation="delete"-->
            </config>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path pcep
```

Configure isis

Dynamic candidate path properties of ISIS

Attribute Name: isis

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <config>
              <isis>WORD</isis> <!-- operation="delete"-->
            </config>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path isis (WORD|)
```

Configure ospf

Dynamic candidate path properties of OSPF with process-id

Attribute Name: ospf

Attribute Type: int32

Attribute Range: 0-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <config>
              <ospf>0</ospf> <!-- operation="delete"-->
            </config>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path ospf <0-65535>
```

Configure ospf empty

Dynamic candidate path properties of OSPF without process-id

Attribute Name: ospf-empty

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>

```

```

<candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>pcep</protocol-origin>
  <discriminator>1</discriminator>
</dynamic>
<config>
  </ospf-empty><!-- operation="delete"-->
</config>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path ospf
```

Configure originator

Enable constraints for the candidate path

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>local</protocol-origin>

```



```

        <discriminator>1</discriminator>
    </dynamic>
    <constraints>
    <config>
        </enable>
    </config>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
constraints
```

Configure constraints enable

Enable constraints for the candidate path

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
    <policy>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </policy>
    </policies>
    <candidate-paths>
    <candidate-path>
      <originator>WORD</originator>
      <config>
        <originator>WORD</originator>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
      </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
    </candidate-path>
    </candidate-paths>
    <constraints>
    <config>
      </enable>
    </config>
    </constraints>
  </traffic-engineering>
</segment-routing>

```

```

</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
enable
```

Configure hop limit

Use this attribute to specify a limit of hops for candidate-path

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        </dynamic>
        <constraints>
          <config>
            <hop-limit>1</hop-limit> <!-- operation="delete"-->
          </config>
        </constraints>
      </dynamic>
    </candidate-path>
  </candidate-paths>
</policy>
</policies>
</traffic-engineering>

```

```
</segment-routing>
```

Command Syntax

```
hop-limit <1-32>
```

Configure metric type

Metric type can be IGP or TE

Attribute Name: metric-type

Attribute Type: enum (igp|te|latency)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        </dynamic>
        <constraints>
          <bounds>
            <bound> <!-- operation="delete"-->
              <metric-type>igp</metric-type>
              <config>
                <metric-type>igp</metric-type>
              </config>
            </bound>
          </bounds>
        </constraints>
      </dynamic>
    </candidate-path>
  </candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency)
```

Configure bound

Path is invalid if its metric exceeds this value, If no value is specified

Attribute Name: bound

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <bounds>
                <bound>
                  <metric-type>igp</metric-type>
                  <config>
                    <metric-type>igp</metric-type>
                  </config>
                  <bound>1</bound> <!-- operation="delete"-->
                </bound>
              </bounds>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency) bound <1-4294967295>
```

Configure admin group name

admin group name

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>local</protocol-origin>
          <discriminator>1</discriminator>
        <dynamic>
          <constraints>
            <admin-groups>
              <admin-group> <!-- operation="delete"-->
                <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
                <config>
                  <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
                  <affinity-type>exclude-any</affinity-type>
                </config>
              </admin-group>
            </admin-groups>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </policy>
</policies>
</traffic-engineering>
```

```
</segment-routing>
```

Command Syntax

```
affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure extended admin group name

Extended admin group name

Attribute Name: extended-admin-group-name

Attribute Type: string

Attribute Name: extended-admin-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <extended-admin-groups>
                <extended-admin-group> <!-- operation="delete"-->
                  <extended-admin-group-name>EXTENDED-ADMIN-GROUP-NAME</extended-admin-group-
name>
                  <config>
                    <extended-admin-group-name>EXTENDED-ADMIN-GROUP-NAME</extended-admin-
group-name>
                    <extended-admin-affinity-type>exclude-any</extended-admin-affinity-type>
                  </config>
                </extended-admin-group>
              </extended-admin-groups>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
```

```

</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

extended-affinity (exclude-any|include-any|include-all) EXTENDED-ADMIN-GROUP-NAME

Configure srlg group name

SRLG group name

Attribute Name: srlg-group-name

Attribute Type: string

Attribute Name: srlg-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>local</protocol-origin>
  <discriminator>1</discriminator>
<dynamic>
<constraints>
<srlg-groups>
<srlg-group> <!-- operation="delete"-->
  <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
  <config>
    <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
    <srlg-affinity-type>exclude-any</srlg-affinity-type>
  </config>
</srlg-group>
</srlg-groups>
</constraints>
</dynamic>

```

```

</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
srlg-affinity (exclude-any|include-any|include-all) SRLG-GROUP-NAME
```

Configure address

Hop address which needs to be included in the LSP path

Attribute Name: address

Attribute Type: inet:ip-address

Attribute Name: type

Attribute Type: enum (loose|strict)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>local</protocol-origin>
  <discriminator>1</discriminator>
<dynamic>
<constraints>
<ip>
<include-hop> <!-- operation="delete"-->
  <address>A.B.C.D/X:X::X:X</address>
  <config>
    <address>A.B.C.D/X:X::X:X</address>
    <type>loose</type>
  </config>
</include-hop>
</ip>

```



```

</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
A.B.C.D/X:X::X:X (loose|strict|)
```

Configure ihaf address

IP Hop address which needs to be included/excluded in the LSP path

Attribute Name: ihaf-address

Attribute Type: inet:ip-address

Attribute Name: ihaf-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>local</protocol-origin>
  <discriminator>1</discriminator>
</dynamic>
<constraints>
<ip-address-filters>
<ip-address-filter> <!-- operation="delete"-->
  <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
  <config>
    <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
    <ihaf-affinity-type>exclude-any</ihaf-affinity-type>
  </config>

```

```

    </ip-address-filter>
</ip-address-filters>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

A.B.C.D/X:X::X:X (exclude-any|include-any|include-all)

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
</candidate-paths>
<candidate-path>
    <originator>WORD</originator>
    <config>
        <originator>WORD</originator>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    </config>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
</dynamic>
<constraints>
<segment-rule>
<config>
    </enable>
</config>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>

```

```

</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
segment-rule
```

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        <dynamic>
          <constraints>
            <segment-rule>
              <config>
                </enable>
              </config>
            </segment-rule>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

enable

Configure dataplane type

SR policy dynamic candidate path's data-plane type

Attribute Name: dataplane-type

Attribute Type: enum (mpls|srv6)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <segment-rule>
                <property>
                  <config>
                    <dataplane-type>mpls</dataplane-type> <!-- operation="delete"-->
                  </config>
                </property>
              </segment-rule>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

dataplane (mpls|srv6)

Configure sid algorithm

Flexible Algorithm Number

Attribute Name: sid-algorithm

Attribute Type: uint32

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        <dynamic>
          <constraints>
            <segment-rule>
              <property>
                <config>
                  <sid-algorithm>128</sid-algorithm> <!-- operation="delete"-->
                </config>
              </property>
            </segment-rule>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
sid-algorithm <128-255>
```

Configure protection type

SR policy dynamic candidate path's protection type

Attribute Name: protection-type

Attribute Type: enum (protected-only|protected-prefered|unprotected-only|unprotected-prefered)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <segment-rule>
                <property>
                  <config>
                    <protection-type>protected-only</protection-type> <!--
operation="delete"-->
                  </config>
                </property>
              </segment-rule>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
protection (protected-only|protected-prefered|unprotected-only|unprotected-
prefered)
```

Configure sub id

Disjoint path sub-group id

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>local</protocol-origin>
          <discriminator>1</discriminator>
        <dynamic>
          <constraints>
            <disjoint-paths>
              <disjoint-path>
                <disjoint-type>link</disjoint-type>
                <config>
                  <disjoint-type>link</disjoint-type>
                  <group-id>1</group-id>
                </config>
                <group-id>1</group-id>
                <sub-id>1</sub-id>
              </disjoint-path>
            </disjoint-paths>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
disjoint-path group-id <1-65535> type (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure group id

Disjoint path sub-group id

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <disjoint-paths>
                <disjoint-path>
                  <disjoint-type>link</disjoint-type>
                  <config>
                    <disjoint-type>link</disjoint-type>
                    <group-id>1</group-id>
                  </config>
                    <group-id>1</group-id>
                    <sub-id>1</sub-id> <!-- operation="delete"-->
                  </disjoint-path>
                </disjoint-paths>
              </constraints>
            </dynamic>
          </candidate-path>
        </candidate-paths>
      </policy>
    </policies>
```



```
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
<1-65535> (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure segment-lists list-name

Reference to segment-list name

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>local</protocol-origin>
  <discriminator>1</discriminator>
<explicit>
<segment-lists>
<segment-list> <!-- operation="delete"-->
  <list-name>WORD</list-name>
  <config>
    <list-name>WORD</list-name>
  </config>
</segment-list>
</segment-lists>
</explicit>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
explicit segment-list WORD
```

Configure pce lsp delegate

To delegate all the configured candidate path of policy to PCE controller

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <pce>
        <config>
          </pce-lsp-delegate><!-- operation="delete"-->
        </config>
      </pce>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
pce lsp-delegate
```

Configure pce state report

To only report all the configured candidate path of policy to PCE controller

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <pce>
        <config>
```

```

        </pce-state-report><!-- operation="delete"-->
</config>
</pce>
</policy>
</policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
pce state-report
```

Configure pce entity id

Entity Id of PCEP entity to which this policy should be queried/reported/delegated

Attribute Name: pce-entity-id

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <policies>
      <policy>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      <pce>
        <config>
          <pce-entity-id>1</pce-entity-id> <!-- operation="delete"-->
        </config>
      </pce>
    </policy>
  </policies>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
pce entity <1-255>
```

Configure srv6 enable

Enable segment routing v6

This command is supported when following feature are enabled srv6 feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <srv6>
    <config>
      </enable>
    </config>
  </srv6>
</segment-routing>
```

Command Syntax

```
srv6
```

Configure locators enable

Enable segment routing v6 locator

This command is supported when following feature are enabled srv6 feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <srv6>
    <locators>
      <config>
        </enable>
      </config>
    </locators>
  </srv6>
</segment-routing>
```

Command Syntax

```
locators
```

Configure locator name

Locator name

This command is supported when following feature are enabled srv6 feature

Attribute Name: locator-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <srv6>
    <locators>
      <locator> <!-- operation="delete"-->
        <locator-name>WORD</locator-name>
      </locator>
    </locators>
  </srv6>
</segment-routing>
```

```

        <locator-name>WORD</locator-name>
    </config>
</locator>
</locators>
</srv6>
</segment-routing>

```

Command Syntax

```
locator WORD
```

Configure locator prefix

Ipv6 Address for locator

This command is supported when following feature are enabled srv6 feature

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <srv6>
    <locators>
      <locator>
        <locator-name>WORD</locator-name>
        <config>
          <locator-name>WORD</locator-name>
        </config>
        <prefix>X:X::X:X/M</prefix> <!-- operation="delete"-->
      </locator>
    </locators>
  </srv6>
</segment-routing>

```

Command Syntax

```
prefix X:X::X:X/M
```

Configure options

This attribute is used to enable/disable SR Policy debug logs

Attribute Name: options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <debug>
    <config>
      <options>policy</options> <!-- operation="delete"-->
    </config>
  </debug>
</segment-routing>

```

```
</debug>
</segment-routing>
```

Command Syntax

```
debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf RPC payload

```
<sr-policy-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
segment-routing">
  <terminal-debug-options>policy</terminal-debug-options>
</sr-policy-terminal-debug-on>
```

Command Syntax

```
debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

no debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf RPC payload

```
<sr-policy-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
segment-routing">
  <terminal-debug-options>policy</terminal-debug-options>
</sr-policy-terminal-debug-off>
```

Command Syntax

```
no debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

IPI-L2VPN-VPLS

Configure service template name

Specify Customer service template name to bind to this Attachment circuit

Attribute Name: service-template-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
  <service-template-mappings>
```

```

<service-template-mapping> <!-- operation="delete"-->
  <service-template-name>NAME</service-template-name>
  <config>
    <service-template-name>WORD</service-template-name>
    <vpls-name>WORD</vpls-name>
    <interface-name>WORD</interface-name>
  </config>
</vpls-name>NAME</vpls-name>
<interface-name>WORD</interface-name>
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>

```

Command Syntax

```
mpls-vpls NAME service-template NAME
```

Configure admin status

Specify admin status for VPLS AC

Attribute Name: admin-status

Attribute Type: enum (down)

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
    <service-template-mappings>
      <service-template-mapping>
        <service-template-name>NAME</service-template-name>
        <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
          <interface-name>WORD</interface-name>
        </config>
        <vpls-name>NAME</vpls-name>
        <interface-name>WORD</interface-name>
        <admin-status>down</admin-status> <!-- operation="delete"-->
      </service-template-mapping>
    </service-template-mappings>
  </attachment-circuit>
</vpls>

```

Command Syntax

```
ac-admin-status (down)
```

Configure attachment circuit description

Specify description of VPLS AC

Attribute Name: attachment-circuit-description

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
    <service-template-mappings>
      <service-template-mapping>
        <service-template-name>NAME</service-template-name>
        <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
          <interface-name>WORD</interface-name>
        </config>
        <vpls-name>NAME</vpls-name>
        <interface-name>WORD</interface-name>
        <attachment-circuit-description>LINE</attachment-circuit-description> <!--
operation="delete"-->
      </service-template-mapping>
    </service-template-mappings>
  </attachment-circuit>
</vpls>
```

Command Syntax

```
ac-description LINE
```

Configure mac learning

Specify mac-learning for VPLS AC

Attribute Name: mac-learning

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
    <service-template-mappings>
      <service-template-mapping>
        <service-template-name>NAME</service-template-name>
        <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
          <interface-name>WORD</interface-name>
        </config>
        <vpls-name>NAME</vpls-name>
        <interface-name>WORD</interface-name>
        <mac-learning>enable</mac-learning> <!-- operation="delete"-->
      </service-template-mapping>
    </service-template-mappings>
  </attachment-circuit>
```



```
</vpls>
```

Command Syntax

```
learning (enable|disable)
```

Configure split horizon

Specify split-horizon for VPLS

Attribute Name: split-horizon

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
    <service-template-mappings>
      <service-template-mapping>
        <service-template-name>NAME</service-template-name>
        <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
          <interface-name>WORD</interface-name>
        </config>
        <vpls-name>NAME</vpls-name>
        <interface-name>WORD</interface-name>
        <split-horizon>network</split-horizon> <!-- operation="delete"-->
      </service-template-mapping>
    </service-template-mappings>
  </attachment-circuit>
</vpls>
```

Command Syntax

```
split-horizon group (network|access1|access2)
```

Configure static mac address

Specify static-mac to be added on AC

Attribute Name: static-mac-address

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <attachment-circuit>
    <service-template-mappings>
      <service-template-mapping>
        <service-template-name>NAME</service-template-name>
        <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
        </config>
      </service-template-mapping>
    </service-template-mappings>
  </attachment-circuit>
</vpls>
```

```

        <interface-name>WORD</interface-name>
    </config>
    <vpls-name>NAME</vpls-name>
    <interface-name>WORD</interface-name>
    <static-mac-address>XXXX.XXXX.XXXX</static-mac-address> <!-- operation="delete"-->
->
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>

```

Command Syntax

```
static-mac XXXX.XXXX.XXXX
```

Configure profile name

Specify profile name for map profile

This command is supported when following feature are enabled QOS feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<attachment-circuit>
<service-template-mappings>
<service-template-mapping>
    <service-template-name>NAME</service-template-name>
    <config>
        <service-template-name>WORD</service-template-name>
        <vpls-name>WORD</vpls-name>
        <interface-name>WORD</interface-name>
    </config>
    <vpls-name>NAME</vpls-name>
    <interface-name>WORD</interface-name>
</service-template-mapping>
</service-template-mappings>
<quality-of-service-profiles>
<quality-of-service-profile> <!-- operation="delete"-->
    <profile-name>NAME</profile-name>
    <config>
        <profile-name>WORD</profile-name>
        <profile-type>cos-to-queue</profile-type>
    </config>
    <profile-type>cos-to-queue</profile-type>
</quality-of-service-profile>
</quality-of-service-profiles>
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>

```

Command Syntax

```
vc-qos map-profile (cos-to-queue|queue-color-to-cos) NAME
```

Configure out label

Specify out going label for VPLS static forwarding

Attribute Name: out-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <static-forwarding>
    <vpls-entries>
      <vpls-entry>
        <peer-address>A.B.C.D</peer-address>
        <config>
          <peer-address>A.B.C.D</peer-address>
          <vpls-identifier>1</vpls-identifier>
          <in-label>16</in-label>
          <out-interface-name>OUT-INTF</out-interface-name>
        </config>
        <vpls-identifier>1</vpls-identifier>
        <out-label>16</out-label>
      </vpls-entry>
    </vpls-entries>
  </static-forwarding>
</vpls>
```

Command Syntax

```
vpls fib-entry <1-4294967295> peer A.B.C.D <16-15999> OUT-INTF <16-15999>
```

Configure vpls identifier

Specify out going label for VPLS static forwarding

Attribute Name: out-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <static-forwarding>
    <hierarchical-vpls-entries>
      <hierarchical-vpls-entry>
        <spoke-pseudowire-name>VC-NAME</spoke-pseudowire-name>
        <config>
          <spoke-pseudowire-name>WORD</spoke-pseudowire-name>
          <vpls-identifier>1</vpls-identifier>
          <in-label>16</in-label>
          <out-interface-name>OUT-INTF</out-interface-name>
        </config>
        <vpls-identifier>1</vpls-identifier>
        <out-label>16</out-label>
      </hierarchical-vpls-entry>
    </hierarchical-vpls-entries>
  </static-forwarding>
</vpls>
```

Command Syntax

```
vpls fib-entry <1-4294967295> spoke-vc WORD <16-15999> OUT-INTF <16-15999>
```

Configure detect interval

Mac move detection interval

Attribute Name: detect-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 5-300

Attribute Name: detect-time

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1000

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-move-global>
    <config>
      <detect-time>1</detect-time> <!-- operation="delete"-->
      <detect-interval>5</detect-interval> <!-- operation="delete"-->
    </config>
```

```
</mac-move-global>
</vpls>
```

Command Syntax

```
vpls mac-move enable detect <1-1000> <5-300>
```

Configure mac-limit-profiles profile-name

VPLS instance mac limit config

This command is supported when following feature are enabled Vpls feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-limit-profiles>
    <mac-limit-profile> <!-- operation="delete"-->
      <profile-name>PROFILENAME</profile-name>
    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
  </mac-limit-profile>
</mac-limit-profiles>
</vpls>
```

Command Syntax

```
vpls mac-limit-profile PROFILENAME
```

Configure learning limit

No of mac limit supported

This command is supported when following feature are enabled Vpls feature

Attribute Name: learning-limit

Attribute Type: uint16

Default Value: 32767

Attribute Range: 1-32767

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-limit-profiles>
    <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    <learning-limit>1</learning-limit> <!-- operation="delete"-->
  </mac-limit-profiles>
</vpls>
```

```

</mac-limit-profile>
</mac-limit-profiles>
</vpls>

```

Command Syntax

```
learning-limit <1-32767>
```

Configure action

Mac limit action

This command is supported when following feature are enabled Vpls feature

Attribute Name: action

Attribute Type: enum (log-only|log-errdisable)

Default Value: log-only

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-limit-profiles>
    <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <action>log-only</action> <!-- operation="delete"-->
    </mac-limit-profile>
  </mac-limit-profiles>
</vpls>

```

Command Syntax

```
action (log-only|log-errdisable)
```

Configure high watermark

High watermark for logging

This command is supported when following feature are enabled Vpls feature

Attribute Name: high-watermark

Attribute Type: uint16

Default Value: 90

Attribute Range: 1-100

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-limit-profiles>
    <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
      <config>

```

```

    <profile-name>PROFILENAME</profile-name>
  </config>
  <high-watermark>1</high-watermark> <!-- operation="delete"-->
</mac-limit-profile>
</mac-limit-profiles>
</vpls>

```

Command Syntax

```
high-watermark <1-100>
```

Configure low watermark

Low watermark for logging

This command is supported when following feature are enabled Vpls feature

Attribute Name: low-watermark

Attribute Type: uint16

Default Value: 70

Attribute Range: 1-100

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <mac-limit-profiles>
    <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <low-watermark>1</low-watermark> <!-- operation="delete"-->
    </mac-limit-profile>
  </mac-limit-profiles>
</vpls>

```

Command Syntax

```
low-watermark <1-100>
```

Configure errdisable timeout interval

Error disable timeout interval

This command is supported when following feature are enabled Vpls feature

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
```

```

<mac-limit-profiles>
<mac-limit-profile>
  <profile-name>PROFILENAME</profile-name>
  <config>
    <profile-name>PROFILENAME</profile-name>
  </config>
  <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
</mac-limit-profile>
</mac-limit-profiles>
</vpls>

```

Command Syntax

```
errdisable-timeout <0-86400>
```

Configure enable

This attribute is used to enable VPLS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<vpls-access>
<config>
  </enable>
</config>
</vpls-access>
</interface>
</interfaces>
</vpls>

```

Command Syntax

```
access-if-vpls
```

Configure vpls name

This attribute uniquely identifies a VPLS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: vpls-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpls-access>
      <config>
        <vpls-name>NAME</vpls-name> <!-- operation="delete"-->
      </config>
    </vpls-access>
  </interface>
</interfaces>
</vpls>
```

Command Syntax

```
mpls-vpls NAME
```

Configure disable mac learning

Use this attribute to disable dynamic learning of MAC's

This command is supported when following feature are enabled Subinterface feature

Attribute Name: disable-mac-learning

Attribute Type: empty

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpls-access>
      <config>
        </disable-mac-learning><!-- operation="delete"-->
      </config>
    </vpls-access>
  </interface>
</interfaces>
</vpls>
```

Command Syntax

```
learning disable
```

Configure name

Specify AC mac learning limit profile

This command is supported when following feature are enabled Subinterface feature

Attribute Name: learning-limit

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpls-access>
      <config>
        <learning-limit>PROFILENAME</learning-limit> <!-- operation="delete"-->
      </config>
    </vpls-access>
  </interface>
</interfaces>
</vpls>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure vpls-access static-mac-address

Specify static-mac to be added on L2VPN VPLS

This command is supported when following feature are enabled Subinterface feature

Attribute Name: static-mac-address

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <vpls-access>
      <config>
```

```

        <static-mac-address>XXXX.XXXX.XXXX</static-mac-address> <!--
operation="delete"-->
    </config>
</vpls-access>
</interface>
</interfaces>
</vpls>

```

Command Syntax

```
static-mac XXXX.XXXX.XXXX
```

Configure vpls identifier

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vpls-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>vpls</instance-type>
    <config>
      <instance-type>vpls</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
  <vpls-instance>
    <config>
      <vpls-identifier>1</vpls-identifier>
    </config>
  </vpls-instance>
</network-instances>

```

Command Syntax

```
mpls vpls NAME <1-4294967295>
```

Configure service transport identifier

Specify service transport identifier

Attribute Name: service-transport-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <service-transport-identifier>dot1.q</service-transport-identifier> <!--
operation="delete"-->
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure route map

Use this attribute to set route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <route-map>WORD</route-map> <!-- operation="delete"-->
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vpls-route-map WORD
```

Configure maximum transmission unit

Set the Maximum Transmission Unit (MTU) size for a given VPLS instance. This size is signaled to peer VPLS routers

Attribute Name: maximum-transmission-unit

Attribute Type: uint16

Default Value: 1500

Attribute Range: 576-65535

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <maximum-transmission-unit>576</maximum-transmission-unit> <!--
operation="delete"-->
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vpls-mtu <576-65535>
```

Configure vpls description

Specify a description for this VPLS instance

Attribute Name: vpls-description

Attribute Type: string

Default Value: NULL

Attribute Range: 1-64

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
```

```

    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <config>
        <vpls-description>LINE</vpls-description> <!-- operation="delete"-->
    </config>
    </vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

vpls-description LINE

Configure control word

Control Word for VPLS instance

Attribute Name: control-word

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>WORD</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpls</instance-type>
        </config>
        <instance-type>vpls</instance-type>
        <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
        <config>
            </control-word><!-- operation="delete"-->
        </config>
        </vpls-instance>
    </network-instance>
</network-instances>

```

Command Syntax

control-word

Configure mac learning disable

Specify mac learning disable for VPLS instance

Attribute Name: mac-learning-disable

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">

```

```

<network-instance>
  <instance-name>WORD</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vpls</instance-type>
  </config>
  <instance-type>vpls</instance-type>
  <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <config>
      </mac-learning-disable><!-- operation="delete"-->
    </config>
  </vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

learning disable

Configure mac learning limit

Specify mac learning limit

Attribute Name: mac-learning-limit

Attribute Type: uint32

Attribute Range: 5-32767

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <mac-learning-limit>5</mac-learning-limit> <!-- operation="delete"-->
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

learning limit <5-32767>

Configure attachment circuit group name

Specify ac-group name

Attribute Name: attachment-circuit-group-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <attachment-circuit-group-name>GROUPNAME</attachment-circuit-group-name>
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
<!-- operation="delete"-->
```

Command Syntax

```
vpls-ac-group GROUPNAME
```

Configure mac withdrawal

Specify mac address withdrawal type

Attribute Name: mac-withdrawal

Attribute Type: bits (flush-on-spoke-vc-standby-activation|flush-propagate-spoke-to-mesh)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        <mac-withdrawal>flush-on-spoke-vc-standby-activation</mac-withdrawal>
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
- operation="delete"-->
```


Command Syntax

```
mac-withdrawal (flush-on-spoke-vc-standby-activation|flush-propagate-spoke-to-
mesh)
```

Configure mac flush send on mlag switchover

Enable mac withdrawal mlag switch for MPLS VPLS

Attribute Name: mac-flush-send-on-mlag-switchover

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
        </mac-flush-send-on-mlag-switchover><!-- operation="delete"-->
      </config>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mac-flush-send-on-mlag-switchover
```

Configure pseudowire name

Specify pseudowire name to be added

Attribute Name: pseudowire-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
```

```

    <spoke-pseudowires>
    <spoke-pseudowire> <!-- operation="delete"-->
        <pseudowire-name>NAME</pseudowire-name>
        <config>
            <pseudowire-name>NAME</pseudowire-name>
        </config>
    </spoke-pseudowire>
</spoke-pseudowires>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-vc NAME
```

Configure revertive timer

This attribute is used to configure the vpls vc revertive timer. Default value is 0

Attribute Name: revertive-timer

Attribute Type: uint16

Attribute Range: 0-3600

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
        <spoke-pseudowire>
          <pseudowire-name>NAME</pseudowire-name>
          <config>
            <pseudowire-name>NAME</pseudowire-name>
            </enable-revertive-mode><!-- operation="delete"-->
          </config>
          <revertive-timer>0</revertive-timer> <!-- operation="delete"-->
        </spoke-pseudowire>
      </spoke-pseudowires>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
vc-mode revertive (timer <0-3600>|)
```

Configure secondary pseudowire name

Specify secondary pseudowire name to be added

Attribute Name: secondary-pseudowire-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
        <spoke-pseudowire>
          <pseudowire-name>NAME</pseudowire-name>
          <config>
            <pseudowire-name>NAME</pseudowire-name>
          </config>
          <secondary-pseudowire-name>NAME</secondary-pseudowire-name> <!--
operation="delete"-->
        </spoke-pseudowire>
      </spoke-pseudowires>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
secondary NAME
```

Configure instance name

Specify vc mac learning limit profile

Attribute Name: learning-limit

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
```

```

<instance-name>WORD</instance-name>
<config>
  <instance-name>WORD</instance-name>
  <instance-type>vpls</instance-type>
</config>
  <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<spoke-pseudowires>
<spoke-pseudowire>
  <pseudowire-name>NAME</pseudowire-name>
  <config>
    <pseudowire-name>NAME</pseudowire-name>
  </config>
  <learning-limit>PROFILENAME</learning-limit> <!-- operation="delete"-->
</spoke-pseudowire>
</spoke-pseudowires>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
learning limit PROFILENAME
```

Configure instance type

Specify split-horizon for VPLS

Attribute Name: split-horizon

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
      <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<spoke-pseudowires>
<spoke-pseudowire>
  <pseudowire-name>NAME</pseudowire-name>
  <config>
    <pseudowire-name>NAME</pseudowire-name>
  </config>
  <split-horizon>network</split-horizon> <!-- operation="delete"-->
</spoke-pseudowire>
</spoke-pseudowires>

```

```

</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
split-horizon group (network|access1|access2)
```

Configure enable interface parameter tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <fat-label>
        <config>
          </enable-flow-label><!-- operation="delete"-->
          <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
          </enable-interface-parameter-tlv><!-- operation="delete"-->
        </config>
      </fat-label>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive) interface-param-tlv
```

Configure enable static flow label

Use this attribute to configure static flow label for VPLS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <fat-label>
        <config>
          </enable-flow-label><!-- operation="delete"-->
          <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
          </enable-static-flow-label><!-- operation="delete"-->
        </config>
      </fat-label>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
flow-label (both|transmit|receive) static
```

Configure flow label direction

Use this attribute to configure flow label direction to transmit, receive or both for VPLS Virtual Circuits

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
```

```

        <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <fat-label>
    <config>
        </enable-flow-label><!-- operation="delete"-->
        <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
    </config>
    </fat-label>
    </vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
flow-label (both|transmit|receive)
```

Configure signaling protocol ldp

Specify protocol used for signaling is ldp

Attribute Name: signaling-protocol-ldp

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>WORD</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpls</instance-type>
        </config>
        <instance-type>vpls</instance-type>
        <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
        <vpls-peers>
        <config>
            </signaling-protocol-ldp>
        </config>
        </vpls-peers>
        </vpls-instance>
    </network-instance>
</network-instances>

```

Command Syntax

```
signaling ldp
```

Configure disable mac withdrawal

Specify mac address withdrawal disable

Attribute Name: disable-mac-withdrawal

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <config>
          </disable-mac-withdrawal><!-- operation="delete"-->
        </config>
      </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
mac-withdrawal disable
```

Configure vpls ac treatment type

Customizations for access state treatment

Attribute Name: vpls-ac-treatment-type

Attribute Type: enum (ignore-ac-spoke-state|block-mesh-spoke-on-all-ac-down)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <config>
```



```

        <vpls-ac-treatment-type>ignore-ac-spoke-state</vpls-ac-treatment-type>
<!-- operation="delete"-->
    </config>
</vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

(ignore-ac-spoke-state|block-mesh-spoke-on-all-ac-down)

Configure vpls encapsulation type

Specify encapsulation type

Attribute Name: vpls-encapsulation-type

Attribute Type: enum (vlan|ethernet)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <config>
          <vpls-encapsulation-type>ethernet</vpls-encapsulation-type> <!--
operation="delete"-->
        </config>
      </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

vpls-type (vlan|ethernet)

Configure peer address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer> <!-- operation="delete"-->
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
        <peer-type>manual</peer-type>
      </config>
    </vpls-peer>
    </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D (manual)
```

Configure tunnel name

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-name

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
```

```

</config>
  <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<vpls-peers>
<vpls-peer> <!-- operation="delete"-->
  <peer-address>A.B.C.D</peer-address>
  <config>
    <peer-address>A.B.C.D</peer-address>
    <tunnel-name>TUNNELNAME</tunnel-name>
    <peer-type>manual</peer-type>
  </config>
</vpls-peer>
</vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-peer A.B.C.D tunnel-name TUNNELNAME (manual)
```

Configure tunnel identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
  <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <vpls-peers>
  <vpls-peer> <!-- operation="delete"-->
    <peer-address>A.B.C.D</peer-address>
    <config>
      <peer-address>A.B.C.D</peer-address>

```

```

        <tunnel-identifier>1</tunnel-identifier>
        <peer-type>manual</peer-type>
    </config>
</vpls-peer>
</vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-peer A.B.C.D tunnel-id <1-5000> (manual)
```

Configure tunnel policy

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <vpls-peer> <!-- operation="delete"-->
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>POLICYNAME</tunnel-policy>
            <peer-type>manual</peer-type>
          </config>
        </vpls-peer>
      </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
vppls-peer A.B.C.D tunnel-select-policy POLICYNAME (manual)
```

Configure vppls-peer peer-address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vppls</instance-type>
    </config>
    <instance-type>vppls</instance-type>
    <vppls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vppls">
      <vppls-peers>
        <vppls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
          </config>
        </vppls-peer>
      </vppls-peers>
    </vppls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D
```

Configure vppls-peer tunnel-name

Specify tunnel name

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
```

```

    <instance-name>WORD</instance-name>
    <instance-type>vpls</instance-type>
</config>
    <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<vpls-peers>
<vpls-peer>
    <peer-address>A.B.C.D</peer-address>
    <config>
        <peer-address>A.B.C.D</peer-address>
    </config>
    <tunnel-name>TUNNELNAME</tunnel-name>
</vpls-peer>
</vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-peer A.B.C.D tunnel-name TUNNELNAME
```

Configure vpls-peer tunnel-identifier

Specify static tunnel identifier value

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <vpls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
          </config>
          <tunnel-identifier>1</tunnel-identifier>
        </vpls-peer>
      </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>

```

```
</network-instance>
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D tunnel-id <1-5000>
```

Configure vppls-peer tunnel-policy

Specify tunnel selection policy name

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vppls</instance-type>
    </config>
    <instance-type>vppls</instance-type>
    <vppls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vppls">
      <vppls-peers>
        <vppls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
          </config>
          <tunnel-policy>TNLPOLICYNAME</tunnel-policy>
        </vppls-peer>
      </vppls-peers>
    </vppls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D tunnel-select-policy TNLPOLICYNAME
```

Configure vppls type

Specify Peer VPLS Type

Attribute Name: vppls-type

Attribute Type: enum (vlan|ethernet)

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer>
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <vpls-type>vlan</vpls-type>
    </vpls-peer>
    </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
vpls-peer A.B.C.D vpls-type (vlan|ethernet)
```

Configure vpls-peer vpls-type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>

```



```

    <vpls-peer>
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
        <tunnel-name>TUNNELNAME</tunnel-name>
      </config>
      <vpls-type>vlan</vpls-type>
    </vpls-peer>
  </vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-peer A.B.C.D tunnel-name TUNNELNAME vpls-type (vlan|ethernet)
```

Configure vpls-peer vpls-type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
        <vpls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-identifier>1</tunnel-identifier>
          </config>
          <vpls-type>vlan</vpls-type>
        </vpls-peer>
      </vpls-peers>
    </vpls-instance>
  </network-instance>

```

```
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D tunnel-id <1-5000> vppls-type (vlan|ethernet)
```

Configure vppls-peer vppls-type

Specify Peer VPLS Type

Attribute Name: vppls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vppls</instance-type>
    </config>
    <instance-type>vppls</instance-type>
    <vppls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vppls">
      <vppls-peers>
        <vppls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>TNLPOLICYNAME</tunnel-policy>
          </config>
          <vppls-type>vlan</vppls-type>
        </vppls-peer>
      </vppls-peers>
    </vppls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D tunnel-select-policy TNLPOLICYNAME vppls-type (vlan|ethernet)
```

Configure target attachment individual identifier

Specify the Target Attachment Individual Identifier

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer>
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <fec129s>
        <fec129 <!-- operation="delete"-->
          <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
          <config>
            <target-attachment-individual-identifier>WORD</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>WORD</source-attachment-
individual-identifier>
            <attachment-group-identifier>WORD</attachment-group-identifier>
          </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
          </fec129>
        </fec129s>
      </vpls-peer>
    </vpls-peers>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
agi NAME saii NAME taii NAME
```

Configure attachment group identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer> <!-- operation="delete"-->
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <fec129s>
      <fec129>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        </fec129>
      </fec129s>
    </vpls-peer>
    </vpls-peers>
  </vpls-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D agi NAME saii NAME taii NAME
```

Configure source attachment individual identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Attribute Name: tunnel-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer> <!-- operation="delete"-->
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <fec129s>
      <fec129>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        <config>
          <tunnel-name>TUNNELNAME</tunnel-name>
        </config>
      </fec129>
    </fec129s>
    </vpls-peer>
  </vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D agi NAME sai NAME tai NAME tunnel-name TUNNELNAME
```

Configure vpls-peers peer-address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Attribute Name: tunnel-identifier

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-peers>
    <vpls-peer> <!-- operation="delete"-->
      <peer-address>A.B.C.D</peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
      </config>
      <fec129s>
      <fec129>
        <attachment-group-identifier>NAME</attachment-group-identifier>
        <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
        <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
        <config>
          <tunnel-identifier>1</tunnel-identifier>
        </config>
      </fec129>
    </fec129s>
    </vpls-peer>
  </vpls-peers>
</vpls-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
vppls-peer A.B.C.D agi NAME saii NAME taii NAME tunnel-id <1-5000>
```

Configure bgp auto discovery

Enable BGP Auto-Discovery for LDP peers

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: bgp-auto-discovery

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vppls</instance-type>
    </config>
    <instance-type>vppls</instance-type>
    <vppls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vppls">
      <ldp-sig-bgp-autodiscovery>
        <config>
          </bgp-auto-discovery>
        </config>
      </ldp-sig-bgp-autodiscovery>
    </vppls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
bgp-auto-discovery
```

Configure rd string

Use this attribute to assign a route distinguisher (RD) for the VPLS instance in ASN:nn or IP-address:nn format RD must be unique across all VPLS instances

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: rd-string

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
```

```

<config>
  <instance-name>WORD</instance-name>
  <instance-type>vpls</instance-type>
</config>
  <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <ldp-sig-bgp-autodiscovery>
  <config>
    <rd-string>ASN:nn_or_IP-address:nn</rd-string> <!-- operation="delete"-->
  </config>
</ldp-sig-bgp-autodiscovery>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
rd ASN:nn_or_IP-address:nn
```

Configure l2vpn id

Specify L2 VPN ID in ASN:nn or IP-address:nn format L2 VPN ID must be unique across all VPLS instances

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: l2vpn-id

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
      <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <ldp-sig-bgp-autodiscovery>
  <config>
    <l2vpn-id>ASN:nn_or_IP-address:nn</l2vpn-id> <!-- operation="delete"-->
  </config>
</ldp-sig-bgp-autodiscovery>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
l2vpn-id ASN:nn_or_IP-address:nn
```


Configure direction

Use this attribute to add a list of import and export route-target extended communities for the VPLS instance

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: direction

Attribute Type: bits (import|export|both)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <ldp-sig-bgp-autodiscovery>
      <route-targets>
      <route-target>
        <rt-string>ASN:nn_or_IP-address:nn</rt-string>
        <config>
          <rt-string>ASN:nn_or_IP-address:nn</rt-string>
        </config>
        <direction>import</direction>
      </route-target>
    </route-targets>
  </ldp-sig-bgp-autodiscovery>
</vpls-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
route-target (import|export|both) ASN:nn_or_IP-address:nn
```

Configure signaling protocol bgp

Specify protocol used for signaling is bgp

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: signaling-protocol-bgp

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
```

```

<config>
  <instance-name>WORD</instance-name>
  <instance-type>vpls</instance-type>
</config>
  <instance-type>vpls</instance-type>
<vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <bgp-signaling>
  <config>
    </signaling-protocol-bgp>
  </config>
</bgp-signaling>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
signaling bgp
```

Configure vpls edge identifier

Specify VPLS edge identifier value

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: vpls-edge-identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
      <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <bgp-signaling>
    <config>
      <vpls-edge-identifier>1</vpls-edge-identifier> <!-- operation="delete"-->
    </config>
  </bgp-signaling>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
ve-id <1-65535>
```

Configure bgp-signaling tunnel-policy

Specify tunnel selection policy name

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <bgp-signaling>
        <config>
          <tunnel-policy>TNLPOLICYNAME</tunnel-policy> <!-- operation="delete"-->
        </config>
      </bgp-signaling>
    </vpls-instance>
  </network-instance>
</network-instances>
```

Command Syntax

```
tunnel-select-policy TNLPOLICYNAME
```

Configure profile type

Specify profile name

This command is supported when following feature are enabled QOS feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
```

```

    <instance-type>vpls</instance-type>
  <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <quality-of-service-profiles>
      <quality-of-service-profile> <!-- operation="delete"-->
        <profile-name>NAME</profile-name>
        <config>
          <profile-name>WORD</profile-name>
          <profile-type>cos-to-queue</profile-type>
        </config>
        <profile-type>cos-to-queue</profile-type>
      </quality-of-service-profile>
    </quality-of-service-profiles>
  </vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
vpls-qos map-profile (cos-to-queue|queue-color-to-cos) NAME
```

Configure detect time

Mac move detection interval

Attribute Name: detect-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 5-300

Attribute Name: detect-time

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1000

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
        <config>
          <detect-time>1</detect-time> <!-- operation="delete"-->
          <detect-interval>5</detect-interval> <!-- operation="delete"-->
        </config>
      </vpls-mac-move-instance>
    </vpls-instance>
  </network-instance>
</network-instances>

```

```

</vpls-mac-move-instance>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
detect <1-1000> <5-300>
```

Configure mac move instance

VPLS instance mac move config

Attribute Name: mac-move-instance

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
        <config>
          </mac-move-instance>
        </config>
      </vpls-mac-move-instance>
    </vpls-instance>
  </network-instance>
</network-instances>

```

Command Syntax

```
mac-move
```

Configure vpls-mac-move-instance errdisable-timeout-interval

Error disable timeout interval

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">

```

```

<network-instance>
  <instance-name>WORD</instance-name>
  <config>
    <instance-name>WORD</instance-name>
    <instance-type>vpls</instance-type>
  </config>
  <instance-type>vpls</instance-type>
  <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <vpls-mac-move-instance>
  <config>
    <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
  </config>
</vpls-mac-move-instance>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
errdisable timeout-interval <0-86400>
```

Configure errdisable allow mesh blocking

Allow blocking for Mesh PW

Attribute Name: errdisable-allow-mesh-blocking

Attribute Type: empty

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpls</instance-type>
    </config>
    <instance-type>vpls</instance-type>
    <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <vpls-mac-move-instance>
    <config>
      <errdisable-allow-mesh-blocking><!-- operation="delete"-->
    </config>
  </vpls-mac-move-instance>
</vpls-instance>
</network-instance>
</network-instances>

```

Command Syntax

```
errdisable allow-mesh-pw-blocking
```

clear mpls vpls NAME statistics (access-port|network-port)

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: port-type

Attribute Type: enum (access-port|network-port)

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics-port-type xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
  <port-circuit-name>NAME</port-circuit-name>
  <port-type>access-port</port-type>
</clear-mpls-vpls-name-statistics-port-type>
```

Command Syntax

```
clear mpls vpls NAME statistics (access-port|network-port)
```

clear mpls vpls NAME statistics network-port peer A.B.C.D

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-circuit-type

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics-network-port-peer xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <port-circuit-name>NAME</port-circuit-name>
  <vc-circuit-type>A.B.C.D</vc-circuit-type>
</clear-mpls-vpls-name-statistics-network-port-peer>
```

Command Syntax

```
clear mpls vpls NAME statistics network-port peer A.B.C.D
```

clear mpls vpls NAME statistics network-port spoke-vc VC_NAME

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-circuit-type

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics-network-port-spoke xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
  <port-circuit-name>NAME</port-circuit-name>
  <vc-circuit-type>VC_NAME</vc-circuit-type>
```

```
</clear-mpls-vpls-name-statistics-network-port-spoke>
```

Command Syntax

```
clear mpls vpls NAME statistics network-port spoke-vc VC_NAME
```

clear mpls vpls NAME statistics access-port WORD (vlan (<1-4094>)|ethernet)

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-interface-name

Attribute Type: string

Attribute Name: vc-access-type

Attribute Type: union

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics-access-port xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
  <port-circuit-name>NAME</port-circuit-name>
  <vc-interface-name>WORD</vc-interface-name>
  <vc-access-type>VPLS_MPLS_ACCESS_TYPE_T</vc-access-type>
</clear-mpls-vpls-name-statistics-access-port>
```

Command Syntax

```
clear mpls vpls NAME statistics access-port WORD (vlan (<1-4094>)|ethernet)
```

clear mpls vpls NAME statistics

Attribute Name: vpls-circuit-name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpls">
  <vpls-circuit-name>NAME</vpls-circuit-name>
</clear-mpls-vpls-name-statistics>
```

Command Syntax

```
clear mpls vpls NAME statistics
```

clear mpls vpls NAME mac-addresses

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-mac-addresses-for-instance xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
```



```
<name>NAME</name>
</clear-mpls-vpls-mac-addresses-for-instance>
```

Command Syntax

```
clear mpls vpls NAME mac-addresses
```

clear mpls vpls mac-addresses

Netconf RPC payload

```
<clear-mpls-vpls-mac-addresses-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpls"/>
```

Command Syntax

```
clear mpls vpls mac-addresses
```

clear mpls vpls mac-move NAME

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-mac-move-for-instance xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-l2vpn-vpls">
  <name>NAME</name>
</clear-mpls-vpls-mac-move-for-instance>
```

Command Syntax

```
clear mpls vpls mac-move NAME
```

IPI-MCEC

Configure options

Use this attribute to debug the mlag feature.

Attribute Name: options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <debug>
  <config>
    <options>hello</options> <!-- operation="delete"-->
  </config>
</debug>
</mcec>
```

Command Syntax

```
debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

Configure mcec strict active standby

Use this attribute to set mcec strict active standby

Attribute Name: mcec-strict-active-standby

Attribute Type: empty

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      </mcec-strict-active-standby><!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
mcec strict-active-standby disable
```

Configure system number

Use this attribute to configure domain system number, which uniquely identifies domain system in MCEC domain

Attribute Name: system-number

Attribute Type: uint8

Attribute Range: 1-2

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      <system-number>1</system-number> <!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
domain-system-number <1-2>
```

Configure delay time

Use this attribute to specify the number of seconds by which to delay bringing up the MC-LAG interface

Attribute Name: delay-time

Attribute Type: uint32

Attribute Range: 10-300

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      <delay-time>10</delay-time> <!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
init-delay-time <10-300>
```

Configure address

Use this attribute configure domain address, which helps to identify the MCEC domain

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      <address>MAC</address> <!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
domain-address MAC
```

Configure priority

Use this attribute to specify the priority value associated with MCEC domain

Attribute Name: priority

Attribute Type: uint16

Default Value: 32768

Attribute Range: 1-65535

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      <priority>1</priority> <!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
domain-priority <1-65535>
```

Configure hello timeout

Use this attribute to specify the domain hello-timeout value

Attribute Name: hello-timeout

Attribute Type: enum (long|short)

Default Value: long

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <domain>
    <config>
      <hello-timeout>long</hello-timeout> <!-- operation="delete"-->
    </config>
  </domain>
</mcec>
```

Command Syntax

```
domain-hello-timeout (long|short)
```

Configure interface

Use this attribute to map an interface as intra domain link that connects the domain system with its neighbour in a mcec domain

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <intra-domain>
    <peer-link>
      <config>
        <interface>IFNAME</interface> <!-- operation="delete"-->
      </config>
    </peer-link>
  </intra-domain>
</mcec>
```

Command Syntax

```
intra-domain-link IFNAME
```

Configure vrf

vrf of the peer DSN node

Attribute Name: vrf

Attribute Type: string

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Attribute Name: local-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <intra-domain>
    <peer-address>
      <config>
        <peer-address>A.B.C.D</peer-address>
        <local-address>A.B.C.D</local-address>
        <vrf>VRF_NAME</vrf>
      </config>
    </peer-address>
  </intra-domain>
</mcec>
```

Command Syntax

```
intra-domain-peer A.B.C.D source-address A.B.C.D (vrf VRF_NAME|)
```

Configure interface mode

Use this attribute to set the MC-LAG mode. active-standby: The interface is ready to transition from active to standby state should a failure occur in the other node.

Attribute Name: interface-mode

Attribute Type: enum (active-standby|active-active)

Default Value: active-standby

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <mrag-interfaces>
    <mrag-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <interface-mode>active-standby</interface-mode> <!-- operation="delete"-->
    </mrag-interface>
  </mrag-interfaces>
</mcec>
```

Command Syntax

```
mode (active-standby|active-active)
```

Configure revertive timer

Use this attribute to set the timer for MC-LAG switchover revertive type. After Revertive timer expires Slave will handover the control to Master Node. If a failure happens that triggers a switchover, after failure recovery the initially-active node becomes active again. Default switchover type is revertive 10s.

Attribute Name: revertive-timer

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-3600

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <mrag-interfaces>
    <mrag-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <switchover-type>
      <config>
        <revertive-timer>1</revertive-timer> <!-- operation="delete"-->
      </config>
    </switchover-type>
  </mrag-interface>
</mrag-interfaces>
</mcec>
```

Command Syntax

```
switchover type revertive <1-3600>
```

Configure enable non revertive

Use this attribute to set the MC-LAG switchover to non-revertive type. Do not switch back to the initially-active node after failure recovery. Default switchover type is revertive 10s.

Attribute Name: enable-non-revertive

Attribute Type: empty

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <mrag-interfaces>
    <mrag-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <switchover-type>
      <config>
```

```

        </enable-non-revertive><!-- operation="delete"-->
</config>
</switchover-type>
</mlog-interface>
</mlog-interfaces>
</mcec>

```

Command Syntax

```
switchover type non-revertive
```

debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf RPC payload

```

<mcec-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <terminal-debug-options>hello</terminal-debug-options>
</mcec-terminal-debug-on>

```

Command Syntax

```
debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

no debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf RPC payload

```

<mcec-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
  <terminal-debug-options>hello</terminal-debug-options>
</mcec-terminal-debug-off>

```

Command Syntax

```
no debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

clear mcec statistics

Netconf RPC payload

```
<clear-mcec-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec"/>
```

Command Syntax

```
clear mcec statistics
```

reload-trigger-mcec-notification

Netconf RPC payload

```
<trigger-reload xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec"/>
```

Command Syntax

```
reload-trigger-mcec-notification
```

IPI-MLAG

Configure mlag id

MLAG group number

Attribute Name: mlag-id

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <mlag-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mlag">
      <config>
        <mlag-id>1</mlag-id>
      </config>
    </mlag-aggregation>
  </interface>
</interfaces>
```

Command Syntax

```
mlag <1-255>
```

reload-trigger-save-mlag-info

Netconf RPC payload

```
<trigger-save-mlag-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mlag"/>
```

Command Syntax

```
reload-trigger-save-mlag-info
```

IPI-PLATFORM

Configure enable cmm

Use this attribute to turn on debugging for chassis monitoring

Attribute Name: enable-cmm

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <debug>
    <config>
      </enable-cmm><!-- operation="delete"-->
    </config>
  </debug>
</components>
```

Command Syntax

```
debug cmm
```

Configure enable ddm

Use this attribute to turn on debugging for digital diagnostic monitoring

Attribute Name: enable-ddm

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <debug>
    <config>
      </enable-ddm><!-- operation="delete"-->
    </config>
  </debug>
</components>
```

Command Syntax

```
debug ddm
```

Configure warning repeat

To enable cmm warning level logs to repeat.

Attribute Name: warning-repeat

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      </warning-repeat><!-- operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
cmm warning repeat
```

Configure locator led enable

To set the locator-led on or off.

Attribute Name: locator-led-enable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      </locator-led-enable><!-- operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
locator-led on
```

Configure ddm monitor time interval

To set DDM Monitor interval time.

Attribute Name: ddm-monitor-time-interval

Attribute Type: uint16

Attribute Range: 60-3600

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      <ddm-monitor-time-interval>60</ddm-monitor-time-interval> <!--
operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
ddm monitor interval <60-3600>
```

Configure cpu core usage monitor interval

To set CPU core usage monitor interval time

Attribute Name: cpu-core-usage-monitor-interval

Attribute Type: uint16

Attribute Range: 60-600

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      <cpu-core-usage-monitor-interval>60</cpu-core-usage-monitor-interval> <!--
operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
cpu-core-monitor-average interval <60-600>
```

Configure enable ddm monitor

To enable DDM monitor for all transceivers.

Attribute Name: enable-ddm-monitor

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      </enable-ddm-monitor><!-- operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
ddm monitor all
```

Configure gps satellite

Configure satellite system

Attribute Name: gps-satellite

Attribute Type: bits (gps|galileo|glonass|beidou)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <config>
      <gps-satellite>gps</gps-satellite> <!-- operation="delete"-->
    </config>
  </global>
</components>
```

Command Syntax

```
gps satellite-system {gps|galileo|glonass|beidou}
```

Configure system 15min load avg alarm

System 15min average load for alarm

Attribute Name: system-15min-load-avg-alarm

Attribute Type: uint8

Attribute Range: 51-100

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <system-load-average-thresholds>
      <system-load-average-threshold> <!-- operation="delete"-->
        <system-15min-load-avg-alarm>51</system-15min-load-avg-alarm>
      <config>
        <system-15min-load-avg-alarm>51</system-15min-load-avg-alarm>
        <system-5min-load-avg-alarm>51</system-5min-load-avg-alarm>
        <system-1min-load-avg-alarm>51</system-1min-load-avg-alarm>
        <system-1min-load-avg-warning-threshold>41</system-1min-load-avg-warning-
threshold>
      </config>
      <system-5min-load-avg-alarm>51</system-5min-load-avg-alarm>
      <system-1min-load-avg-alarm>51</system-1min-load-avg-alarm>
      <system-1min-load-avg-warning-threshold>41</system-1min-load-avg-warning-
threshold>
    </system-load-average-threshold>
  </system-load-average-thresholds>
</global>
</components>
```

Command Syntax

```
system-load-average 1min warning <41-100> alarm <51-100> 5min alarm <51-100> 15min
alarm <51-100>
```

Configure alarm threshold

Cpu threshold for alarm

Attribute Name: alarm-threshold

Attribute Type: uint8

Attribute Range: 91-100

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <cpu-core-usage-thresholds>
      <cpu-core-usage-threshold> <!-- operation="delete"-->
        <alarm-threshold>91</alarm-threshold>
        <config>
          <alarm-threshold>91</alarm-threshold>
          <warning-threshold>51</warning-threshold>
        </config>
        <warning-threshold>51</warning-threshold>
      </cpu-core-usage-threshold>
    </cpu-core-usage-thresholds>
  </global>
</components>
```

Command Syntax

```
cpu-core-usage warning <51-100> alarm <91-100>
```

Configure gps position disable

gps postion disable

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-position-disable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <gps-position>
      <config>
        </gps-position-disable><!-- operation="delete"-->
      </config>
    </gps-position>
  </global>
</components>
```

Command Syntax

```
gps position disable
```

Configure gps survey in position accuracy

GPS position accuracy

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-survey-in-position-accuracy

Attribute Type: uint32

Attribute Range: 1-10000

Attribute Name: gps-survey-in-observation-time

Attribute Type: uint32

Attribute Range: 1-1440

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <gps-position>
      <config>
        <gps-survey-in-observation-time>1</gps-survey-in-observation-time> <!--
operation="delete"-->
        <gps-survey-in-position-accuracy>1</gps-survey-in-position-accuracy> <!--
operation="delete"-->
      </config>
    </gps-position>
  </global>
</components>
```

Command Syntax

```
gps position survey-in <1-1440> <1-10000>
```

Configure gps fixed altitude

GPS fixed altitude in meters

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-fixed-altitude

Attribute Type: decimal64

Attribute Name: gps-fixed-latitude

Attribute Type: decimal64

Attribute Name: gps-fixed-longitude

Attribute Type: decimal64

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <global>
    <gps-position>
      <config>
        <gps-fixed-latitude>LATITUDE</gps-fixed-latitude> <!-- operation="delete"-->
        <gps-fixed-longitude>LONGITUDE</gps-fixed-longitude> <!-- operation="delete"-->
        <gps-fixed-altitude>ALTITUDE</gps-fixed-altitude> <!-- operation="delete"-->
      </config>
    </gps-position>
  </global>
</components>
```

```

</gps-position>
</global>
</components>

```

Command Syntax

```
gps position fixed LATITUDE LONGITUDE ALTITUDE
```

Configure monitor port

To enable DDM monitor for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: monitor-port

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <monitor-port>disable</monitor-port> <!-- operation="delete"-->
</interface>
</interfaces>
</components>

```

Command Syntax

```
ddm monitor (disable|enable)
```

Configure poe enable

To enable PoE for current interface.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: poe-enable

Attribute Type: empty

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  </poe-enable><!-- operation="delete"-->
</interface>

```

```
</interfaces>
</components>
```

Command Syntax

```
poe-enable
```

Configure transceiver code

To set transceiver code for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: transceiver-code

Attribute Type: enum (1000base-sx|1000base-lx|1000base-ex|1000base-cx|10gbase-sr|10gbase-lr|10gbase-er|10gbase-cr|25gbase-sr|25gbase-lr|25gbase-er|25gbase-cr|40gbase-sr4|40gbase-lr4|40gbase-er4|40gbase-cr4|100gbase-sr4|100gbase-lr4|100gbase-er4|100gbase-cr4)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  <transceiver-code>1000base-sx</transceiver-code> <!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
transceiver (1000base-sx|1000base-lx|1000base-ex|1000base-cx|10gbase-sr|10gbase-
lr|10gbase-er|10gbase-cr|25gbase-sr|25gbase-lr|25gbase-er|25gbase-cr|40gbase-
sr4|40gbase-lr4|40gbase-er4|40gbase-cr4|100gbase-sr4|100gbase-lr4|100gbase-
er4|100gbase-cr4)
```

Configure wavelength

```
wavelength
```

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: wavelength

Attribute Type: union

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
```



```

        <interface-name>WORD</interface-name>
    </config>
    <wavelength>CML_WAVELENGTH_T</wavelength>
</interface>
</interfaces>
</components>

```

Command Syntax

```
wavelength (channel-number <1-96>|update <1528773-1566723>)
```

Configure tx disable

To disable laser tx for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: tx-disable

Attribute Type: empty

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    </tx-disable><!-- operation="delete"-->
</interface>
</interfaces>
</components>

```

Command Syntax

```
tx-disable
```

Configure edfa operating mode

To set the EDFA operating mode

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-operating-mode

Attribute Type: enum (agc|apc)

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>

```

```

    </config>
    <edfa-operating-mode>agc</edfa-operating-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</components>

```

Command Syntax

```
edfa operating-mode (agc|apc)
```

Configure edfa target output power

To configure the target output power value in dBm

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-target-output-power

Attribute Type: decimal64

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    <edfa-target-output-power>VALUE</edfa-target-output-power> <!--
operation="delete"-->
</interface>
</interfaces>
</components>

```

Command Syntax

```
edfa target-outpwr VALUE
```

Configure edfa target gain

To set the target-gain

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-target-gain

Attribute Type: decimal64

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>

```

```
</config>
<edfa-target-gain>VALUE</edfa-target-gain> <!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
edfa target-gain VALUE
```

Configure tx cdr bypass

Bypass the TX CDR control

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
  </tx-cdr-bypass><!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
tx cdr-bypass
```

Configure rx cdr bypass

Bypass the CDR control

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
  <interface-name>WORD</interface-name>
  <config>
    <interface-name>WORD</interface-name>
  </config>
</interface>
</interfaces>
</components>
```

```
</rx-cdr-bypass><!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
rx cdr-bypass
```

Configure interval

To set disk activity sampling window interval time.

Attribute Name: interval

Attribute Type: uint16

Attribute Range: 30-1200

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<disk-activity-monitoring>
<config>
  <interval>30</interval> <!-- operation="delete"-->
</config>
</disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring interval <30-1200>
```

Configure read threshold

To set disk read activity alarm threshold.

Attribute Name: read-threshold

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<disk-activity-monitoring>
<config>
  <read-threshold>1</read-threshold> <!-- operation="delete"-->
</config>
</disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring threshold read <1-20000>
```

Configure write threshold

To set disk write activity alarm threshold.

Attribute Name: write-threshold

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <disk-activity-monitoring>
    <config>
      <write-threshold>1</write-threshold> <!-- operation="delete"-->
    </config>
  </disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring threshold write <1-20000>
```

Configure temperature policy

Set temperature policy

Attribute Name: temperature-policy

Attribute Type: enum (sys-halt|sys-reboot|none)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <temperature>
    <config>
      <temperature-policy>sys-halt</temperature-policy> <!-- operation="delete"-->
    </config>
  </temperature>
</components>
```

Command Syntax

```
temperature policy (sys-halt|sys-reboot|none)
```

Configure sensor id

Sensor ID

Attribute Name: sensor-id

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
```

```

<temperature>
<thresholds>
<threshold> <!-- operation="delete"-->
  <sensor-id>1</sensor-id>
  <config>
    <sensor-id>1</sensor-id>
  </config>
</threshold>
</thresholds>
</temperature>
</components>

```

Command Syntax

```
temperature threshold <1-15>
```

Configure value

Value to over-write temperature sensor threshold

Attribute Name: value

Attribute Type: int16

Attribute Range: -50-150

Netconf edit-config payload

```

<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<temperature>
<thresholds>
<threshold>
  <sensor-id>1</sensor-id>
  <config>
    <sensor-id>1</sensor-id>
  </config>
<severities>
<severity>
  <severity>emer-max</severity>
  <config>
    <severity>emer-max</severity>
  </config>
  <value>-50</value> <!-- operation="delete"-->
</severity>
</severities>
</threshold>
</thresholds>
</temperature>
</components>

```

Command Syntax

```
(emer-max|alrt-max|crit-max|crit-min|alrt-min|emer-min) <-50-150>
```

Configure fan duty

To configure the fan duty cycle

Attribute Name: fan-duty

Attribute Type: uint8

Attribute Range: 0-100

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <fan-duty-cycle>
    <config>
      <fan-duty>0</fan-duty> <!-- operation="delete"-->
    </config>
  </fan-duty-cycle>
</components>
```

Command Syntax

```
fan-duty-cycle <0-100>
```

clear ddm transceiver alarm all

Netconf RPC payload

```
<ddm-clear-transceiver-alarm-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-platform"/>
```

Command Syntax

```
clear ddm transceiver alarm all
```

clear ddm transceiver alarm

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ddm-clear-transceiver-alarm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform">
  <name>WORD</name>
</ddm-clear-transceiver-alarm>
```

Command Syntax

```
clear ddm transceiver alarm
```

debug ddm

Netconf RPC payload

```
<cmm-terminal-debug-ddm-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform"/>
```

Command Syntax

```
debug ddm
```

no debug ddm

Netconf RPC payload

```
<cmm-terminal-debug-ddm-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform"/>
```

Command Syntax

```
no debug ddm
```

debug cmm

Netconf RPC payload

```
<cmm-terminal-debug-cmm-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform"/>
```

Command Syntax

```
debug cmm
```

no debug cmm

Netconf RPC payload

```
<cmm-terminal-debug-cmm-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform"/>
```

Command Syntax

```
no debug cmm
```

gps position survey-in restart

Netconf RPC payload

```
<gps-survey-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform"/>
```

Command Syntax

```
gps position survey-in restart
```

IPI-PLATFORM-PROFILE

Configure flow control

Use this attribute to enable or disable hardware profile flowcontrol.

This command is supported when following feature are enabled broadcom feature

Attribute Name: flow-control

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      </flow-control><!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile flowcontrol enable
```

Configure aclif

Use this attribute to set or unset the hardware profile aclif

This command is supported when following feature are enabled broadcom feature

Attribute Name: aclif

Attribute Type: enum (failover|no-failover)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <aclif>failover</aclif> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile aclif (failover|no-failover)
```

Configure seamless bfd

Use this attribute to enable or disable hardware profile seamless-bfd.

This command is supported when following feature are enabled broadcom feature

Attribute Name: seamless-bfd

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      </seamless-bfd><!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

```
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile seamless-bfd enable
```

Configure kbp disable

Use this attribute to enable or disable kbp hardware profile.

This command is supported when following feature are enabled broadcom feature

Attribute Name: kbp-disable

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      </kbp-disable><!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile kbp-disable
```

Configure ufis9600 64x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-64x-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufis9600-64x-port-mode>mode1</ufis9600-64x-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure as7315 27x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as7315_27x-port-mode

Attribute Type: enum (mode1|mode2|mode3)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <as7315_27x-port-mode>mode1</as7315_27x-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3)
```

Configure as5916 as5912 54x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as5916_as5912_54x-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <as5916_as5912_54x-port-mode>mode1</as5916_as5912_54x-port-mode> <!--
operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure as7316 26xb port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as7316_26xb-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <as7316_26xb-port-mode>mode1</as7316_26xb-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure s9500 30xs port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: s9500_30xs-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <s9500_30xs-port-mode>mode1</s9500_30xs-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufi9600 32x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufi9600-32x-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode2

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
```

```

    <config>
      <ufis9600-32x-port-mode>mode2</ufis9600-32x-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9600 56dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-56dx-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufis9600-56dx-port-mode>mode1</ufis9600-56dx-port-mode> <!--
operation="delete"-->
    </config>
  </hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9600 28dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-28dx-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufis9600-28dx-port-mode>mode1</ufis9600-28dx-port-mode> <!--
operation="delete"-->
    </config>
  </hardware-profile>

```

```
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9610 36d port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9610-36d-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufis9610-36d-port-mode>mode1</ufis9610-36d-port-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure ufis9610 46dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9610-46dx-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufis9610-46dx-port-mode>mode1</ufis9610-46dx-port-mode> <!--
operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure ufi9610 48dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufi9610-48dx-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <ufi9610-48dx-port-mode>mode1</ufi9610-48dx-port-mode> <!--
operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure as9947 36xkb port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as9947_36xkb-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <as9947_36xkb-port-mode>mode1</as9947_36xkb-port-mode> <!-- operation="delete"--
>
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure custom service queue profile

Use this attribute to configure or unconfigure hardware profile service-queue profile support.

This command is supported when following feature are enabled broadcom feature

Attribute Name: custom-service-queue-profile

Attribute Type: enum (profile1|profile2)

Default Value: profile1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <custom-service-queue-profile>profile1</custom-service-queue-profile> <!--
operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile service-queue (profile1|profile2)
```

Configure bgp flowspec mode

use this attribute to set bgp-flowspec-mode

This command is supported when following feature are enabled broadcom feature

Attribute Name: bgp-flowspec-mode

Attribute Type: enum (install-all|install-partial|no-prioritizing)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <config>
      <bgp-flowspec-mode>install-all</bgp-flowspec-mode> <!-- operation="delete"-->
    </config>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile bgp-flowspec-mode (install-all|install-partial|no-prioritizing)
```

Configure eedb

Use this attribute to set hardware-profile eedb

This command is supported when following feature are enabled broadcom feature

Attribute Name: eedb

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
```



```
<hardware-profile>
<config>
  <eedb>model</eedb> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile eedb (model|mode2)
```

Configure ingress ipv6 extended

Use this attribute to enable or disable Ingress IPv6 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended

Attribute Type: uint8

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
  </ingress-ipv6-extended><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext enable
```

Configure ingress ipv6 extended vlan

Use this attribute to enable or disable Ingress IPv6 extended vlan filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended-vlan

Attribute Type: uint8

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
  </ingress-ipv6-extended-vlan><!-- operation="delete"-->
</config>
```

```

</filters>
</hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext-vlan enable
```

Configure ingress ip outer

Use this attribute to enable or disable the outer ip header filter

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ip-outer

Attribute Type: empty

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ip-outer><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile filter-match ingress-ip-outer
```

Configure egress dst ipv6

Use this attribute to enable or disable Egress Dst IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-dst-ipv6

Attribute Type: empty

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-dst-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile filter egress-dst-ipv6 enable
```

Configure egress src ipv6

Use this attribute to enable or disable Egress Src IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-src-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-src-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-src-ipv6 enable
```

Configure egress ipv6 dnx

Use this command to enable or disable egress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv6-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-ipv6-dnx><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv6 enable
```

Configure ingress ipv6

Use this attribute to enable or disable Ingress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6 enable
```

Configure qos policer

Use this attribute to enable or disable QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </qos-policer><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-policer enable
```

Configure qos ipv6

Use this attribute to enable or disable QoS filter group for IPv6 traffic. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </qos-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-ipv6 enable
```

Configure ipv4 bgp flowspec

Use this attribute to enable or disable Ingress IPv4 BGP FLOWSPEC filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipv4-bgp-flowspec

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ipv4-bgp-flowspec><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipv4-bgp-flowspec enable
```

Configure qos extended

Use this attribute to enable or disable QoS extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </qos-extended><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-ext enable
```

Configure ingress ipv4 extended

Use this attribute to enable or disable Ingress IPv4 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv4-extended><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4-ext enable
```

Configure ingress ipv6 qos

Use this attribute to enable or disable Ingress IPv6 QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv6-qos><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-qos enable
```

Configure ingress ipv4 qos

Use this attribute to enable or disable Ingress IPv4 QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv4-qos><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4-qos enable
```

Configure ingress ipv6 qos copp

Use this attribute to enable or disable Ingress IPv6 QoS and CoPP filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-qos-copp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv6-qos-copp><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-qos-copp enable
```

Configure ingress ipv4 qos copp

Use this attribute to enable or disable Ingress IPv4 QoS and CoPP filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-qos-copp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv4-qos-copp><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4-qos-copp enable
```

Configure ingress layer2 extended

Use this attribute to enable or disable Ingress L2 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-layer2-extended><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2-ext enable
```

Configure ingress ipv6 extended subif

Use this attribute to enable or disable Ingress IPv6 extended subif filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv6-extended-subif><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext-subif enable
```

Configure ingress ipv4 subif

Use this attribute to enable or disable Ingress IPv4 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv4-subif><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4-subif enable
```

Configure ingress arp

Use this attribute to enable or disable Ingress ARP filter groups.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-arp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-arp><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-arp enable
```

Configure egress qos policer

Use this attribute to enable or disable Egress QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-qos-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-qos-policer><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-qos-policer enable
```

Configure egress qos policer ext

Use this attribute to enable or disable Egress QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-qos-policer-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-qos-policer-ext><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-qos-policer-ext enable
```

Configure egress ipv4 dnx

Use this attribute to enable or disable Egress IPv4 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv4-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-ipv4-dnx><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv4 enable
```

Configure egress l2 mlag

Use this attribute to enable or disable Egress l2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-l2-mlag

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-l2-mlag><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2-mlag enable
```

Configure egress ipv4 ext

Use this attribute to enable or disable Egress IPv4 ext filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv4-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-ipv4-ext><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv4-ext enable
```

Configure egress layer2 dnx

Use this attribute to enable or disable Egress L2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-layer2-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </egress-layer2-dnx><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2 enable
```

Configure egress layer2 ext

Use this attribute to enable or disable Egress L2 ext filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-layer2-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
```

```
<filters>
<config>
  </egress-layer2-ext><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2-ext enable
```

Configure ingress layer2 subif

Use this attribute to enable or disable Ingress L2 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
  </ingress-layer2-subif><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2-subif enable
```

Configure twamp ipv4 dnx

Use this attribute to enable or disable TWAMP IPv4 Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: twamp-ipv4-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
  </twamp-ipv4-dnx><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

```
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter twamp-ipv4 enable
```

Configure twamp ipv6

Use this attribute to enable or disable TWAMP IPv6 Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: twamp-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </twamp-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter twamp-ipv6 enable
```

Configure vxlan arp nd

Use this attribute to enable or disable VxLAN Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-arp-nd

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </vxlan-arp-nd><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
```

```
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan enable
```

Configure vxlan multi homing

Use this attribute to enable or disable VxLAN Multi Homing Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-multi-homing

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </vxlan-multi-homing><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan-mh enable
```

Configure vxlan short pkt

Use this attribute to enable or disable VxLAN Short Packet Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-short-pkt

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </vxlan-short-pkt><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan-short-pkt enable
```

Configure dhcp snoop

Use this attribute to enable or disable Dhcp snooping filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: dhcp-snoop

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </dhcp-snoop><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter dhcp-snoop enable
```

Configure dhcp snoop ipv6

Use this attribute to enable or disable Dhcp snooping ipv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: dhcp-snoop-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </dhcp-snoop-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter dhcp-snoop-ipv6 enable
```

Configure ipsg

Use this attribute to enable or disable IP Source Guard(IPSG) filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipsg

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ipsg><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipsg enable
```

Configure ipsg ipv6

Use this attribute to enable or disable IP Source Guard(IPSG) ipv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipsg-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ipsg-ipv6><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipsg-ipv6 enable
```

Configure ingress ipv4

Use this attribute to enable or disable Ingress IPv4 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-ipv4><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4 enable
```

Configure ingress layer2

Use this attribute to enable or disable Ingress L2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </ingress-layer2><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2 enable
```

Configure qos

Use this attribute to enable or disable QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        </qos><!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos enable
```

Configure evpn mpls multi homing

Use this attribute to enable or disable EVPN-MPLS Multi Homing Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: evpn-mpls-multi-homing

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filter-evpn-mpls-mh>
      <config>
        </evpn-mpls-multi-homing><!-- operation="delete"-->
      </config>
    </filter-evpn-mpls-mh>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter evpn-mpls-mh enable
```

Configure voq scale

Use this attribute to set voq scale for the hardware profile statistics

This command is supported when following feature are enabled broadcom feature

Attribute Name: voq-scale

Attribute Type: enum (full|half)

Default Value: full

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <statistics>
      <config>
        <voq-scale>full</voq-scale> <!-- operation="delete"-->
      </config>
    </statistics>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics voq-scale (full|half)
```

Configure virtual output queue full color forward drop

Use this attribute to enable Virtual Output Queue Forward Drop or Virtual Output Queue Full Color filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: virtual-output-queue-full-color-forward-drop

Attribute Type: enum (voq-full-color|voq-fwd-drop)

Default Value: voq-full-color

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <statistics>
      <config>
        <virtual-output-queue-full-color-forward-drop>voq-full-color</virtual-output-queue-full-color-forward-drop> <!-- operation="delete"-->
      </config>
    </statistics>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics (voq-full-color|voq-fwd-drop) enable
```

Configure egress policer

Use this attribute to enable or disable Egress policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <statistics>
      <config>
        </egress-policer><!-- operation="delete"-->
      </config>
    </statistics>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics egress-policer enable
```

Configure cfm frame loss measurements

Use this attribute to enable or disable CFM Loss Measurements filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-frame-loss-measurements

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <statistics>
      <config>
        </cfm-frame-loss-measurements><!-- operation="delete"-->
      </config>
    </statistics>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics cfm-lm enable
```

Configure cfm synthetic loss measurements

Use this attribute to enable or disable CFM Loss Measurements filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-synthetic-loss-measurements

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
```

```

<statistics>
<config>
  </cfm-synthetic-loss-measurements><!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile statistics cfm-slm enable
```

Configure cfm continuity check message

Use this attribute to enable or disable CFM Continuity Check Messages filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-continuity-check-message

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <statistics>
      <config>
        <cfm-continuity-check-message>disable</cfm-continuity-check-message> <!--
operation="delete"-->
      </config>
    </statistics>
  </hardware-profile>
</profiles>

```

Command Syntax

```
hardware-profile statistics cfm-ccm (disable|enable)
```

Configure enable

This Object is set loadBalance

This command is supported when following feature are enabled broadcom feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <config>
      </enable>
    </config>

```

```
</load-balance>
</hardware>
```

Command Syntax

```
load-balance enable
```

Configure mpls label based

This Object is set for load balancing based on mpls labels

This command is supported when following feature are enabled broadcom feature

Attribute Name: mpls-label-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <config>
      </mpls-label-based><!-- operation="delete"-->
    </config>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance mpls labels
```

Configure symmetric type

Choose Symmetrical or Non symmetrical based load balancing

This command is supported when following feature are enabled L2 feature,broadcom feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: ether-type-based

Attribute Type: empty

Attribute Name: vlan-based

Attribute Type: empty

Attribute Name: src-dest-mac-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <l2>
      <config>
        </ether-type-based><!-- operation="delete"-->
        </vlan-based><!-- operation="delete"-->
      </config>
    </l2>
  </load-balance>
</hardware>
```



```

    </src-dest-mac-based><!-- operation="delete"-->
    <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
</config>
</l2>
</load-balance>
</hardware>

```

Command Syntax

```
load-balance l2 { ether-type| vlan| src-dest-mac| (symmetric|non-symmetric) }
```

Configure protocol id based

Choose Symmetrical or Non symmetrical based load balancing

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: protocol-id-based

Attribute Type: empty

Attribute Name: src-dest-ipv4-address-based

Attribute Type: empty

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<ipv4>
<config>
    </protocol-id-based><!-- operation="delete"-->
    </src-dest-ipv4-address-based><!-- operation="delete"-->
    <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
</config>
</ipv4>
</load-balance>
</hardware>

```

Command Syntax

```
load-balance ipv4 { protocol-id| src-dest-ipv4| (symmetric|non-symmetric) }
```

Configure next header based

This Object is set for Next Header Field for IPV6

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: next-header-based

Attribute Type: empty

Attribute Name: src-dest-ipv6-address-based

Attribute Type: empty

Attribute Name: flow-label-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <ipv6>
      <config>
        </src-dest-ipv6-address-based><!-- operation="delete"-->
        </flow-label-based><!-- operation="delete"-->
        </next-header-based><!-- operation="delete"-->
      </config>
    </ipv6>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance ipv6 { src-dest-ipv6| flow-label| next-hdr }
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp|ldp|vrrp|rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>cpu.q0</queue-name>
        <config>
          <queue-name>cpu.q0</queue-name>
          <rate>0</rate>
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
(cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
redirect|guest|cfm|bfd) rate <0-100000>
```

Configure monitor status

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>cpu.q0</queue-name>
        <config>
          <queue-name>cpu.q0</queue-name>
          <monitor-status>no-monitor</monitor-status>
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
(cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
redirect|guest|cfm|bfd) (no-monitor|monitor)
```

Configure rate

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>cpu.q0</queue-name>
        <config>
          <queue-name>cpu.q0</queue-name>
          <rate>0</rate>
          <monitor-status>no-monitor</monitor-status>
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
(cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
redirect|guest|cfm|bfd) rate <0-100000> (no-monitor|monitor)
```

Configure rate-limits queue-name

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>cpu.q0</queue-name>
        <config>
          <queue-name>cpu.q0</queue-name>
          <monitor-status>no-monitor</monitor-status>
          <rate>0</rate>
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
  (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
  mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
  dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
  redirect|guest|cfm|bfd) (no-monitor|monitor) rate <0-100000>
```

cpu-q-default rate <0-100000>

Attribute Name: rate

Attribute Type: uint32

Attribute Range: 0-100000

Netconf RPC payload

```
<ipi-platform-profile_platform-profile-cpu-q-rate-set xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
  <rate>0</rate>
</ipi-platform-profile_platform-profile-cpu-q-rate-set>
```

Command Syntax

```
cpu-q-default rate <0-100000>
```

no cpu-q-default rate

Attribute Name: rate

Attribute Type: empty

Netconf RPC payload

```
<ipi-platform-profile_platform-profile-cpu-q-rate-unset xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
  <rate>CML_EMPTY_T</rate>
</ipi-platform-profile_platform-profile-cpu-q-rate-unset>
```

Command Syntax

```
no cpu-q-default rate
```

IPI-PLATFORM-PROFILE-EXTENDED

Configure soc

Attribute to indicate the SoC running on this platform. This attribute cannot be configured.

This command is supported when following feature are disabled marvell feature

Attribute Name: soc

Attribute Type: enum

(qax|qux|qmx|dnx|tomahawk|tomahawk2|tomahawk3|tomahawkplus|trident2|trident2plus|trident3|helix4|saber2|maverick2|hurricane4|trident4|tomahawk4|tomahawk5|unknown)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <platform>
    <config>
      <soc>qax</soc> <!-- operation="delete"-->
    </config>
  </platform>
</hardware>
```

Command Syntax

```
platform-extended-soc
(qax|qux|qmx|dnx|tomahawk|tomahawk2|tomahawk3|tomahawkplus|trident2|trident2plus
|trident3|helix4|saber2|maverick2|hurricane4|trident4|tomahawk4|tomahawk5|unknown)
```

Configure kaps

forwarding MDB profile KAPS-CFG

This command is supported when following feature are enabled dnx feature,bcm uft feature and following feature are disabled marvell feature

Attribute Name: kaps

Attribute Type: enum (1)

Attribute Name: type

Attribute Type: enum (balanced|balanced-p-and-p||2-x||3-x||balanced-extended)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <forwarding-profiles>
    <mdb>
      <config>
        <type>balanced</type>
      </config>
    </mdb>
  </forwarding-profiles>
</profiles>
```

```

        <kaps>1</kaps>
    </config>
</mdb>
</forwarding-profiles>
</profiles>

```

Command Syntax

```

forwarding mdb-profile (balanced|balanced-p-and-p|l2-x1|l3-x1|balanced-extended)
    kaps-cfg (1)

```

Configure ether type based

This Object is set for Ether-type based load balancing

This command is supported when following feature are enabled l2 feature,dnx feature and following feature are disabled marvell feature

Attribute Name: ether-type-based

Attribute Type: empty

Attribute Name: vlan-based

Attribute Type: empty

Attribute Name: src-dest-mac-based

Attribute Type: empty

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <l2>
      <inner-l2>
        <config>
          </vlan-based><!-- operation="delete"-->
          </src-dest-mac-based><!-- operation="delete"-->
          <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
          </ether-type-based><!-- operation="delete"-->
        </config>
      </inner-l2>
    </l2>
  </load-balance>
</hardware>

```

Command Syntax

```

load-balance inner-l2 { ether-type| vlan| src-dest-mac| (symmetric|non-symmetric) }

```

Configure src dest ipv4 address based

Source Destination IPV4 based load balancing

This command is supported when following feature are enabled L3 feature,dnx feature and following feature are disabled marvell feature

Attribute Name: src-dest-ipv4-address-based

Attribute Type: empty

Attribute Name: protocol-id-based

Attribute Type: empty

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <ipv4>
      <inner-ipv4>
        <config>
          </protocol-id-based><!-- operation="delete"-->
          <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
          </src-dest-ipv4-address-based><!-- operation="delete"-->
        </config>
      </inner-ipv4>
    </ipv4>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance inner-ipv4 { src-dest-ipv4| protocol-id| (symmetric|non-symmetric) }
```

Configure symmetric type

Non-symmetrical based load balancing

This command is supported when following feature are enabled dnx feature and following feature are disabled marvell feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: src-dest-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <l4-port>
      <config>
        </src-dest-based><!-- operation="delete"-->
        <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
      </config>
    </l4-port>
  </load-balance>
</hardware>
```



```
</load-balance>
</hardware>
```

Command Syntax

```
load-balance src-dest-l4port ((symmetric|non-symmetric)|)
```

IPI-PLATFORM-CMIS

Configure fp port

Front port panel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fp-port

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd> <!-- operation="delete"-->
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
qsfp-dd <0-255>
```

Configure application

Application configuration

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: application

Attribute Type: uint8

Attribute Range: 2-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
    <application>2</application> <!-- operation="delete"-->
  </qsfp-dd>
```

```
</qsfp-dds>
```

Command Syntax

```
application <2-15>
```

Configure service disable

To disable the service for a particular port

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: service-disable

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </service-disable><!-- operation="delete"-->
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
service-disable
```

Configure custom app host id

Configuration of custom application host ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: custom-app-host-id

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
    <custom-app-host-id>1</custom-app-host-id> <!-- operation="delete"-->
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
custom-app-host-id <1-32>
```

Configure custom app media id

Configuration of custom application media ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: custom-app-media-id

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
    <custom-app-media-id>1</custom-app-media-id> <!-- operation="delete"-->
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
custom-app-media-id <1-32>
```

Configure type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <host>
    <prbs>
      <generator>
        <config>
          <type>31q</type> <!-- operation="delete"-->
        </config>
      </generator>
    </prbs>
  </host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) host
```

Configure location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
    <prbs>
      <generator>
        <config>
          <location>pre-fec</location> <!-- operation="delete"-->
        </config>
      </generator>
    </prbs>
  </host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator (pre-fec|post-fec) host
```

Configure checker type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
```

```

<prbs>
<checker>
<config>
    <type>31q</type> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs checker type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) host
```

Configure checker location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
    <fp-port>0</fp-port>
    <config>
        <fp-port>0</fp-port>
    </config>
</qsfp-dd>
</qsfp-dds>
<host>
<prbs>
<checker>
<config>
    <location>pre-fec</location> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs checker (pre-fec|post-fec) host
```

Configure loopback type

Loopback type

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (in|out|both)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</host>
<loopback>
<config>
  <type>in</type> <!-- operation="delete"-->
</config>
</loopback>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
loopback (in|out|both) host
```

Configure lane number

Host lane number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: lane-number

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</host>
<lanes>
<lane> <!-- operation="delete"-->
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
host-lane <1-32>
```

Configure id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (tx-fdd|tx-fed)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
    <lanes>
      <lane>
        <lane-number>1</lane-number>
        <config>
          <lane-number>1</lane-number>
        </config>
        <thresholds>
          <threshold> <!-- operation="delete"-->
            <id>tx-fdd</id>
            <config>
              <id>tx-fdd</id>
            </config>
          </threshold>
        </thresholds>
      </lane>
    </lanes>
  </host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
threshold (tx-fdd|tx-fed)
```

Configure high alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</host>
<lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
  <threshold>
    <id>tx-fdd</id>
    <config>
      <id>tx-fdd</id>
    </config>
    <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
  </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
ha VALUE
```

Configure low alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</host>
<lanes>

```



```

<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
    <threshold>
      <id>tx-fdd</id>
      <config>
        <id>tx-fdd</id>
      </config>
      <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
    </threshold>
  </thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
la VALUE
```

Configure high warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
<host>
  <lanes>
    <lane>
      <lane-number>1</lane-number>
      <config>
        <lane-number>1</lane-number>
      </config>
      <thresholds>
        <threshold>
          <id>tx-fdd</id>
          <config>
            <id>tx-fdd</id>
          </config>
        </threshold>
      </thresholds>
    </lane>
  </lanes>
</host>

```

```

        </config>
        <high-warning>VALUE</high-warning> <!-- operation="delete"-->
    </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
hw VALUE
```

Configure low warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
<host>
  <lanes>
    <lane>
      <lane-number>1</lane-number>
      <config>
        <lane-number>1</lane-number>
      </config>
      <thresholds>
        <threshold>
          <id>tx-fdd</id>
          <config>
            <id>tx-fdd</id>
          </config>
          <low-warning>VALUE</low-warning> <!-- operation="delete"-->
        </threshold>
      </thresholds>
    </lane>
  </lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

lw VALUE

Configure tx input equalizer target

Tx input equalizer target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-input-equalizer-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
    <lanes>
      <lane>
        <lane-number>1</lane-number>
        <config>
          <lane-number>1</lane-number>
        </config>
        <signal-integrity>
          <config>
            <tx-input-equalizer-target>1</tx-input-equalizer-target> <!--
operation="delete"-->
          </config>
        </signal-integrity>
      </lane>
    </lanes>
  </host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

tx-input eq-target <1-15>

Configure rx output equalizer pre cursor target

Rx output equalizer pre-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-pre-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
  <lanes>
  <lane>
    <lane-number>1</lane-number>
    <config>
      <lane-number>1</lane-number>
    </config>
    <signal-integrity>
    <config>
      <rx-output-equalizer-pre-cursor-target>1</rx-output-equalizer-pre-cursor-
target> <!-- operation="delete"-->
    </config>
  </signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
rx-output eq-pre-cursor-target <1-15>
```

Configure rx output equalizer post cursor target

Rx output equalizer post-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-post-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <host>
  <lanes>
```

```

<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <signal-integrity>
    <config>
      <rx-output-equalizer-post-cursor-target>1</rx-output-equalizer-post-
cursor-target> <!-- operation="delete"-->
    </config>
  </signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
rx-output eq-post-cursor-target <1-15>
```

Configure rx output amplitude target

Rx output equalizer amplitude target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-amplitude-target

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
<host>
  <lanes>
    <lane>
      <lane-number>1</lane-number>
      <config>
        <lane-number>1</lane-number>
      </config>
      <signal-integrity>
        <config>
          <rx-output-amplitude-target>0</rx-output-amplitude-target> <!--
operation="delete"-->
        </config>
      </signal-integrity>
    </lane>
  </lanes>
</host>

```

```

</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
rx-output amp-target <0-15>
```

Configure tx cdr bypass

Bypass the TX CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
<host>
<lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <signal-integrity>
    <config>
      </tx-cdr-bypass><!-- operation="delete"-->
    </config>
  </signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
tx cdr-bypass
```

Configure rx cdr bypass

Bypass the CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</host>
<lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <signal-integrity>
  <config>
    </rx-cdr-bypass><!-- operation="delete"-->
  </config>
</signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
rx cdr-bypass
```

Configure generator type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
<media>
<prbs>
<generator>
<config>
  <type>31q</type> <!-- operation="delete"-->
```

```

</config>
</generator>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs generator type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) media
```

Configure generator location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </media>
</prbs>
</generator>
</config>
  <location>pre-fec</location> <!-- operation="delete"-->
</config>
</generator>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs generator (pre-fec|post-fec) media
```

Configure checker type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</media>
</prbs>
</checker>
<config>
  <type>31q</type> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs checker type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) media
```

Configure checker location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</media>
</prbs>
</checker>
<config>
  <location>pre-fec</location> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
prbs checker (pre-fec|post-fec) media
```

Configure loopback type

Loopback type

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (in|out|both)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <media>
    <loopback>
      <config>
        <type>in</type> <!-- operation="delete"-->
      </config>
    </loopback>
  </media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
loopback (in|out|both) media
```

Configure lanes lane-number

Media lane number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: lane-number

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <media>
    <lanes>
      <lane> <!-- operation="delete"-->
    </lanes>
  </media>
</qsfp-dd>
</qsfp-dds>
```

```

    <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
media-lane <1-32>
```

Configure channel

Channel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: channel

Attribute Type: int16

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
</media>
</lanes>
</lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <laser>
    <config>
      <channel>0</channel>
    </config>
  </laser>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
laser channel <-32768-32767>
```

Configure grid

Grid spacing

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: grid

Attribute Type: enum (3p125|6p25|12p5|25|33|50|75|100)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <media>
    <lanes>
      <lane>
        <lane-number>1</lane-number>
        <config>
          <lane-number>1</lane-number>
        </config>
        <laser>
          <config>
            <grid>3p125</grid> <!-- operation="delete"-->
          </config>
        </laser>
      </lane>
    </lanes>
  </media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser grid (3p125|6p25|12p5|25|33|50|75|100)
```

Configure fine tune freq

Fine tune frequency offset

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fine-tune-freq

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
```

```

        <fp-port>0</fp-port>
    </config>
<media>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
        <lane-number>1</lane-number>
    </config>
    <laser>
    <config>
        <fine-tune-freq>VALUE</fine-tune-freq> <!-- operation="delete"-->
    </config>
</laser>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
laser fine-tune-freq VALUE
```

Configure output power

Targeted output power

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: output-power

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
    <fp-port>0</fp-port>
    <config>
        <fp-port>0</fp-port>
    </config>
<media>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
        <lane-number>1</lane-number>
    </config>
    <laser>
    <config>
        <output-power>VALUE</output-power> <!-- operation="delete"-->
    </config>
</laser>

```

```

</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
laser output-power VALUE
```

Configure thresholds id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (rx-fdd|rx-fed|rx-total-power|rx-signal-power)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
<media>
</media>
<lanes>
</lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
    <threshold> <!-- operation="delete"-->
      <id>rx-fdd</id>
      <config>
        <id>rx-fdd</id>
      </config>
    </threshold>
  </thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
threshold (rx-fdd|rx-fed|rx-total-power|rx-signal-power)
```

Configure threshold high-alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <media>
    <lanes>
      <lane>
        <lane-number>1</lane-number>
        <config>
          <lane-number>1</lane-number>
        </config>
        <thresholds>
          <threshold>
            <id>rx-fdd</id>
            <config>
              <id>rx-fdd</id>
            </config>
            <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
          </threshold>
        </thresholds>
      </lane>
    </lanes>
  </media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

ha VALUE

Configure threshold low-alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</media>
</lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
  <threshold>
    <id>rx-fdd</id>
    <config>
      <id>rx-fdd</id>
    </config>
    <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
  </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
la VALUE
```

Configure threshold high-warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</media>
</lanes>

```



```

<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
    <threshold>
      <id>rx-fdd</id>
      <config>
        <id>rx-fdd</id>
      </config>
      <high-warning>VALUE</high-warning> <!-- operation="delete"-->
    </threshold>
  </thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

hw VALUE

Configure threshold low-warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
</media>
</lanes>
</lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <thresholds>
    <threshold>
      <id>rx-fdd</id>
      <config>
        <id>rx-fdd</id>
      </config>
      <high-warning>VALUE</high-warning> <!-- operation="delete"-->
    </threshold>
  </thresholds>
</lane>

```

```

        </config>
        <low-warning>VALUE</low-warning> <!-- operation="delete"-->
    </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
lw VALUE
```

Configure tx filter type

Configuration of media lane tx filter type provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </media>
</lanes>
<lane>
  <lane-number>1</lane-number>
  <config>
    <lane-number>1</lane-number>
  </config>
  <provisions>
    <config>
      <tx-filter-type>root-raised-cosine</tx-filter-type> <!--
operation="delete"-->
    </config>
  </provisions>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
tx-shaping (root-raised-cosine|raised-cosine|gaussian)
```

Configure tx filter roll off

Configuration of media lane tx filter roll off factor provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-roll-off

Attribute Type: decimal64

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <media>
    <lanes>
      <lane>
        <lane-number>1</lane-number>
        <config>
          <lane-number>1</lane-number>
        </config>
        <provisions>
          <config>
            <tx-filter-type>root-raised-cosine</tx-filter-type> <!--
operation="delete"-->
            <tx-filter-roll-off>VALUE</tx-filter-roll-off> <!-- operation="delete"-->
          </config>
        </provisions>
      </lane>
    </lanes>
  </media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
tx-shaping (root-raised-cosine|raised-cosine|gaussian) (beta VALUE|)
```

Configure laser channel

Channel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: channel

Attribute Type: int16

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser channel <-32768-32767>
```

Configure laser grid

Grid spacing

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: grid

Attribute Type: enum (3p125|6p25|12p5|25|33|50|75|100)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser grid (3p125|6p25|12p5|25|33|50|75|100)
```

Configure laser fine-tune-freq

Fine tune frequency offset

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fine-tune-freq

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <laser>
    <config>
      <fine-tune-freq>VALUE</fine-tune-freq> <!-- operation="delete"-->
    </config>
  </laser>
</qsfp-dds>
```

Command Syntax

```
laser fine-tune-freq VALUE
```

Configure laser output-power

Targeted output power

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: output-power

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <laser>
    <config>
      <output-power>VALUE</output-power> <!-- operation="delete"-->
    </config>
  </laser>
</qsfp-dds>
```

Command Syntax

```
laser output-power VALUE
```

Configure thresholds id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (rx-fdd|rx-fed|rx-total-power|rx-signal-power|tx-fdd|tx-fed)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <thresholds>
    <threshold> <!-- operation="delete"-->
      <id>rx-fdd</id>
      <config>
        <id>rx-fdd</id>
      </config>
    </threshold>
  </thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
threshold (rx-fdd|rx-fed|rx-total-power|rx-signal-power|tx-fdd|tx-fed)
```

Configure threshold high-alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <thresholds>
    <threshold>
      <id>rx-fdd</id>
      <config>
        <id>rx-fdd</id>
```

```

    </config>
    <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

ha VALUE

Configure threshold low-alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</thresholds>
<threshold>
  <id>rx-fdd</id>
  <config>
    <id>rx-fdd</id>
    <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
  </threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

la VALUE

Configure threshold high-warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</thresholds>
<threshold>
  <id>rx-fdd</id>
  <config>
    <id>rx-fdd</id>
  </config>
  <high-warning>VALUE</high-warning> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
hw VALUE
```

Configure threshold low-warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
  <fp-port>0</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</thresholds>
<threshold>
  <id>rx-fdd</id>
  <config>
    <id>rx-fdd</id>
  </config>
  <low-warning>VALUE</low-warning> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>

```


Command Syntax

lw VALUE

Configure signal-integrity tx-input-equalizer-target

Tx input equalizer target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-input-equalizer-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
    <config>
      <tx-input-equalizer-target>1</tx-input-equalizer-target> <!--
operation="delete"-->
    </config>
  </signal-integrity>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

tx-input eq-target <1-15>

Configure signal-integrity rx-output-equalizer-pre-cursor-target

Rx output equalizer pre-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-pre-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
```

```

<config>
  <rx-output-equalizer-pre-cursor-target>1</rx-output-equalizer-pre-cursor-
target> <!-- operation="delete"-->
</config>
</signal-integrity>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
rx-output eq-pre-cursor-target <1-15>
```

Configure signal-integrity rx-output-equalizer-post-cursor-target

Rx output equalizer post-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-post-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
    <config>
      <rx-output-equalizer-post-cursor-target>1</rx-output-equalizer-post-cursor-
target> <!-- operation="delete"-->
    </config>
  </signal-integrity>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
rx-output eq-post-cursor-target <1-15>
```

Configure signal-integrity rx-output-amplitude-target

Rx output equalizer amplitude target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-amplitude-target

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
    <config>
      <rx-output-amplitude-target>0</rx-output-amplitude-target> <!--
operation="delete"-->
    </config>
  </signal-integrity>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
rx-output amp-target <0-15>
```

Configure signal-integrity tx-cdr-bypass

Bypass the TX CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```

<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
    <config>
      </tx-cdr-bypass><!-- operation="delete"-->
    </config>
  </signal-integrity>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
tx cdr-bypass
```

Configure signal-integrity rx-cdr-bypass

Bypass the CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <signal-integrity>
  <config>
    </rx-cdr-bypass><!-- operation="delete"-->
  </config>
</signal-integrity>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
rx cdr-bypass
```

Configure interval

Configuration of gating interval

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: interval

Attribute Type: enum (5|10|30|60|120|300|vendor-specific)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  <gating>
  <config>
    <interval>5</interval> <!-- operation="delete"-->
  </config>
</gating>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
gating interval (5|10|30|60|120|300|vendor-specific)
```

Configure provisions tx-filter-type

Configuration of media lane tx filter type provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <provisions>
    <config>
      <tx-filter-type>root-raised-cosine</tx-filter-type> <!-- operation="delete"-->
    </config>
  </provisions>
</qsfp-dds>
```

Command Syntax

```
tx-shaping (root-raised-cosine|raised-cosine|gaussian)
```

Configure provisions tx-filter-roll-off

Configuration of media lane tx filter roll off factor provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-roll-off

Attribute Type: decimal64

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <qsfp-dd>
    <fp-port>0</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
  </qsfp-dd>
  <provisions>
    <config>
      <tx-filter-type>root-raised-cosine</tx-filter-type> <!-- operation="delete"-->
      <tx-filter-roll-off>VALUE</tx-filter-roll-off> <!-- operation="delete"-->
    </config>
  </provisions>
</qsfp-dds>
```

```

</config>
</provisions>
</qsfp-dd>
</qsfp-dds>

```

Command Syntax

```
tx-shaping (root-raised-cosine|raised-cosine|gaussian) (beta VALUE|)
```

tibit-olt-microplug set interface IFNAME management-vlan-tpid (0x8100|0x88a8)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-tpid

Attribute Type: string

Netconf RPC payload

```

<ipi-platform-transceiver-tibit tibit-olt-microplug-set-management-vlan-tpid
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <interface-name>IFNAME</interface-name>
  <vlan-tpid>0x8100</vlan-tpid>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-tpid>

```

Command Syntax

```
tibit-olt-microplug set interface IFNAME management-vlan-tpid (0x8100|0x88a8)
```

tibit-olt-microplug set interface IFNAME management-vlan-id <1-4094>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf RPC payload

```

<ipi-platform-transceiver-tibit tibit-olt-microplug-set-management-vlan-id
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <interface-name>IFNAME</interface-name>
  <vlan-id>1</vlan-id>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-id>

```

Command Syntax

```
tibit-olt-microplug set interface IFNAME management-vlan-id <1-4094>
```

tibit-olt-microplug set interface IFNAME ethernet-mac-address XX:XX:XX:XX:XX:XX

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mac-address

Attribute Type: yang:mac-address

Netconf RPC payload

```
<ipi-platform-transceiver-tibit_tibit-olt-microplug-set-ethernet-mac-address
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <interface-name>IFNAME</interface-name>
  <mac-address>XX:XX:XX:XX:XX:XX</mac-address>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-ethernet-mac-address>
```

Command Syntax

```
tibit-olt-microplug set interface IFNAME ethernet-mac-address XX:XX:XX:XX:XX:XX
```

tibit-olt-microplug set interface IFNAME next-active-firmware-bank-id <0-3>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: bank-id

Attribute Type: uint8

Attribute Range: 0-3

Netconf RPC payload

```
<ipi-platform-transceiver-tibit_tibit-olt-microplug-set-next-active-firmware-
bank xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <interface-name>IFNAME</interface-name>
  <bank-id>0</bank-id>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-next-active-firmware-
bank>
```

Command Syntax

```
tibit-olt-microplug set interface IFNAME next-active-firmware-bank-id <0-3>
```

tibit-olt-microplug reboot interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<ipi-platform-transceiver-tibit_tibit-olt-microplug-reboot xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
  <interface-name>IFNAME</interface-name>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-reboot>
```

Command Syntax

```
tibit-olt-microplug reboot interface IFNAME
```

IPI-PLATFORM-TRANSCIEVER-SMART-SFP

Configure xcvr loopback remote

Use this attribute to set TX/RX loopback for remote

Attribute Name: xcvr-loopback-remote

Attribute Type: enum (in|out)

Netconf edit-config payload

```
<smart-sfp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-transceiver-smart-sfp">
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      <xcvr-loopback-remote>in</xcvr-loopback-remote> <!-- operation="delete"-->
    </interface>
  </interfaces>
</smart-sfp>
```

Command Syntax

```
xcvr loopback (in|out) remote
```

xcvr IFNAME tx-disable <1-256> remote

Attribute Name: if-name

Attribute Type: string

Attribute Name: xcvr-tx-disable-duration

Attribute Type: uint16

Attribute Range: 1-256

Netconf RPC payload

```
<smart-sfp-xcvt-txdisable-duration xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-transceiver-smart-sfp">
  <if-name>IFNAME</if-name>
  <xcvr-tx-disable-duration>1</xcvr-tx-disable-duration>
</smart-sfp-xcvt-txdisable-duration>
```

Command Syntax

```
xcvr IFNAME tx-disable <1-256> remote
```

xcvr IFNAME reset remote

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<smart-sfp-xcvr-reset-remote xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
platform-transceiver-smart-sfp">  
  <if-name>IFNAME</if-name>  
</smart-sfp-xcvr-reset-remote>
```

Command Syntax

```
xcvr IFNAME reset remote
```

IPI-AUTHENTICATION

Configure mac authentication

Use this attribute to enable MAC authentication globally. If MAC authentication is not enabled, other MAC authentication related commands throw an error when issued.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: mac-authentication

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">  
  <global>  
    <config>  
      <mac-authentication><!-- operation="delete"-->  
    </config>  
  </global>  
</authentication>
```

Command Syntax

```
auth-mac system-auth-ctrl
```

Configure dot1x authentication

Use this attribute to enable globally authentication.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: dot1x-authentication

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
```

```

<global>
<config>
  </dot1x-authentication><!-- operation="delete"-->
</config>
</global>
</authentication>

```

Command Syntax

```
dot1x system-auth-ctrl
```

Configure dot1x control

Use this attribute to enable or disable the 802.1X authentication control on an interface.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: dot1x-control

Attribute Type: enum (force-unauthorized|force-authorized|auto)

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <dot1x-control>force-authorized</dot1x-control>
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x port-control (force-unauthorized|force-authorized|auto)
```

Configure protocol version

Use this attribute to set the protocol version of dot1x to 1 or 2. The protocol version must be synchronized with the Xsupplicant being used in that interface.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: protocol-version

Attribute Type: enum (1|2)

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
  <name>WORD</name>
  <config>

```

```

    <name>WORD</name>
  </config>
  <protocol-version>2</protocol-version> <!-- operation="delete"-->
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x protocol-version (1|2)
```

Configure quiet period

Use this attribute to set the quiet-period time interval. When a switch cannot authenticate a client, the switch remains idle for a quiet-period interval of time, then tries again. By administratively changing the quiet-period interval, by entering a lower number than the default, a faster response time can be provided

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: quiet-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
    <dot1x-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <authenticator-pae>
      <config>
        <quiet-period>1</quiet-period> <!-- operation="delete"-->
      </config>
    </authenticator-pae>
  </dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x quiet-period <1-65535>
```

Configure max reauth value

Use this attribute to set the maximum reauthentication value, which sets the maximum number of reauthentication attempts after which the port will be unauthorized.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: max-reauth-value

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
    <dot1x-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </dot1x-interface>
  </dot1x-interfaces>
  <authenticator-pae>
    <config>
      <max-reauth-value>1</max-reauth-value> <!-- operation="delete"-->
    </config>
  </authenticator-pae>
</authentication>
```

Command Syntax

```
dot1x reauthMax <1-10>
```

Configure interval period

Use this attribute to set the interval between successive attempts to request an ID.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: interval-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
    <dot1x-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </dot1x-interface>
  </dot1x-interfaces>
  <authenticator-pae>
    <config>
      <interval-period>1</interval-period> <!-- operation="delete"-->
    </config>
  </authenticator-pae>
</authentication>
```

Command Syntax

```
dot1x timeout tx-period <1-65535>
```

Configure reauthentication period

Use this attribute to set the interval between reauthorization attempts.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: reauthentication-period

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
    <dot1x-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <reauthentication-timer>
        <config>
          <reauthentication-period>1</reauthentication-period> <!-- operation="delete"-
->
        </config>
      </reauthentication-timer>
    </dot1x-interface>
  </dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x timeout re-authperiod <1-4294967295>
```

Configure enable reauthentication

Use this attribute to enable reauthentication on a port.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: enable-reauthentication

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
    <dot1x-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
```

```

<reauthentication-timer>
<config>
    </enable-reauthentication><!-- operation="delete"-->
</config>
</reauthentication-timer>
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x reauthentication
```

Configure enable mac auth bypass

Use this attribute to enable/disable mac-auth-bypass on a port.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: enable-mac-auth-bypass

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<reauthentication-timer>
<config>
    <enable-mac-auth-bypass>enable</enable-mac-auth-bypass> <!--
operation="delete"-->
</config>
</reauthentication-timer>
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x mac-auth-bypass (enable|disable)
```

Configure supplicant timeout

Use this attribute to set the interval for a supplicant to respond.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: supplicant-timeout

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x timeout supp-timeout <1-65535>
```

Configure server timeout

Use this attribute to set the authentication server response timeout.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: server-timeout

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</dot1x-interface>
</dot1x-interfaces>
</authentication>

```

Command Syntax

```
dot1x timeout server-timeout <1-65535>
```

Configure mac control

Use this attribute to enable or disable the MAC authentication control on an interface.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-control

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <mac-interfaces>
    <mac-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </mac-interface>
  </mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac
```

Configure mac mode

Use this attribute to enable or disable the MAC authentication mode on an interface.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-mode

Attribute Type: enum (filter|shutdown)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <mac-interfaces>
    <mac-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mac-mode>shutdown</mac-mode> <!-- operation="delete"-->
    </mac-interface>
  </mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac mode (filter|shutdown)
```

Configure dynamic vlan creation

Use this attribute to enable or disable dynamic VLAN creation after successful MAC authentication.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: dynamic-vlan-creation

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <mac-interfaces>
    <mac-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </dynamic-vlan-creation><!-- operation="delete"-->
    </mac-interface>
  </mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac dynamic-vlan-creation
```

Configure mac address aging

Use this attribute to either enable or disable MAC aging. When enabled, a MAC entry is added to the forwarding database, with aging time equal to the bridge aging time. Otherwise, the MAC entry will not be aged out. If MAC aging is disabled, the MAC entry will not be aged out

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-address-aging

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <mac-interfaces>
    <mac-interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </mac-address-aging><!-- operation="delete"-->
    </mac-interface>
  </mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac mac-aging
```

Configure options

Use this attribute to turn on or turn off 802.1x debugging at various levels.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <debug>
    <config>
      <options>event</options> <!-- operation="delete"-->
    </config>
  </debug>
</authentication>
```

Command Syntax

```
debug dot1x (event|timer|packet|nsm|all)
```

dot1x initialize interface IFNAME

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Netconf RPC payload

```
<dot1x-authentication-initialize-interface xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-authentication">
  <name>IFNAME</name>
</dot1x-authentication-initialize-interface>
```

Command Syntax

```
dot1x initialize interface IFNAME
```

snmp restart auth

Netconf RPC payload

```
<dot1x-authentication-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-authentication"/>
```

Command Syntax

```
snmp restart auth
```

debug dot1x (event|timer|packet|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf RPC payload

```
<dot1x-authentication-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <terminal-debug-options>event</terminal-debug-options>
</dot1x-authentication-terminal-debug-on>
```

Command Syntax

```
debug dot1x (event|timer|packet|nsm|all)
```

no debug dot1x (event|timer|packet|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf RPC payload

```
<dot1x-authentication-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <terminal-debug-options>event</terminal-debug-options>
</dot1x-authentication-terminal-debug-off>
```

Command Syntax

```
no debug dot1x (event|timer|packet|nsm|all)
```

IPI-AUTHENTICATION-RADIUS

Configure port

Specify the radius client port number. The default port number is 1812.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication-radius">
  <global>
    <config>
      <source-address>A.B.C.D</source-address> <!-- operation="delete"-->
      <port>0</port> <!-- operation="delete"-->
    </config>
  </global>
</authentication-radius>
```

```
</global>  
</authentication-radius>
```

Command Syntax

```
ip radius source-interface A.B.C.D <0-65535>
```

Configure timeout

Use this attribute to set the global timeout which is how long the device waits for a response from a RADIUS server before declaring a timeout failure.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: timeout

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
authentication-radius">  
  <global>  
    <config>  
      <timeout>1</timeout> <!-- operation="delete"-->  
    </config>  
  </global>  
</authentication-radius>
```

Command Syntax

```
radius-server dot1x timeout <1-60>
```

Configure retransmit max retries

Use this attribute to specify the number of times the router transmits each radius request to the server before giving up

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: retransmit-max-retries

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
authentication-radius">  
  <global>  
    <config>  
      <retransmit-max-retries>1</retransmit-max-retries> <!-- operation="delete"-->  
    </config>  
  </global>  
</authentication-radius>
```

Command Syntax

```
radius-server dot1x retransmit <1-100>
```

Configure key string

Use this attribute to set a global preshared key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <global>
    <config>
      <key-string>WORD</key-string> <!-- operation="delete"-->
    </config>
  </global>
</authentication-radius>
```

Command Syntax

```
radius-server dot1x key-string WORD
```

Configure encryption key

Use this attribute to set a global preshared key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: encryption-key

Attribute Type: string

Attribute Range: 18-258

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <global>
    <config>
      <encryption-key>WORD</encryption-key> <!-- operation="delete"-->
    </config>
  </global>
</authentication-radius>
```

Command Syntax

```
radius-server dot1x key-string encrypted WORD
```

Configure host address

The host-address to configure the radius host.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host> <!-- operation="delete"-->
      <host-address>A.B.C.D</host-address>
    <config>
      <host-address>A.B.C.D</host-address>
    </config>
  </host>
</hosts>
</authentication-radius>
```

Command Syntax

```
radius-server dot1x host A.B.C.D
```

Configure host port

Specify the radius client port number. The default port number is 1812.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
      <host-port>0</host-port> <!-- operation="delete"-->
    </host>
  </hosts>
</authentication-radius>
```

Command Syntax

```
auth-port <0-65535>
```

Configure host timeout

Use this attribute to set the timeout which is how long the device waits for a response from a RADIUS server before declaring a timeout failure.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-timeout

Attribute Type: uint8

Attribute Range: 0-60

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
      <host-timeout>0</host-timeout> <!-- operation="delete"-->
    </host>
  </hosts>
</authentication-radius>
```

Command Syntax

```
timeout <0-60>
```

Configure host retransmit max retries

Use this attribute to specify the number of times the router transmits each radius request to the server before giving up.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-retransmit-max-retries

Attribute Type: uint8

Attribute Range: 0-100

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
      <host-retransmit-max-retries>0</host-retransmit-max-retries> <!--
operation="delete"-->
    </host>
  </hosts>
```

```
</authentication-radius>
```

Command Syntax

```
retransmit <0-100>
```

Configure host key-string

Use this attribute to set a key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
      <key-string>WORD</key-string> <!-- operation="delete"-->
    </host>
  </hosts>
</authentication-radius>
```

Command Syntax

```
key-string WORD
```

Configure host encryption-key

Use this attribute to set a key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: encryption-key

Attribute Type: string

Attribute Range: 18-258

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
  <hosts>
    <host>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
      </config>
    </host>
  </hosts>
</authentication-radius>
```



```

    <encryption-key>WORD</encryption-key> <!-- operation="delete"-->
</host>
</hosts>
</authentication-radius>

```

Command Syntax

```
key-string encrypted WORD
```

IPI-ACL

Configure type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>ip</type>
      <config>
        <type>ip</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```
ip access-list NAME
```

Configure name

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>ipv6</type>
      <config>
        <type>ipv6</type>

```

```

        <name>WORD</name>
    </config>
    <name>NAME</name>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
ipv6 access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```
mac access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>arp</type>
      <config>
        <type>arp</type>
        <name>WORD</name>
      </config>

```

```

    <name>NAME</name>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
arp access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>copp</type>
      <config>
        <type>copp</type>
        <name>WORD</name>
      </config>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```
ip copp access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set> <!-- operation="delete"-->
      <type>ipv6-copp</type>
      <config>
        <type>ipv6-copp</type>
        <name>WORD</name>
      </config>
    </acl-set>
  </acl-sets>
</acl>

```

```
</acl-sets>
</acl>
```

Command Syntax

```
ipv6 copp access-list NAME
```

Configure description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
      <description>LINE</description> <!-- operation="delete"-->
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
remark LINE
```

Configure acl-set description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
    </acl-set>
  </acl-sets>
</acl>
```

```

    <name>NAME</name>
    <description>LINE</description> <!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
remark LINE
```

Configure acl-set description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
    <description>LINE</description> <!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
remark LINE
```

Configure ipv6 disable default icmpv6 rule

Use this attribute to inform that the default icmpv6 rule is disable for the IPv6 ACL.

Attribute Name: ipv6-disable-default-icmpv6-rule

Attribute Type: uint8

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>

```

```
        <name>WORD</name>
    </config>
    <name>NAME</name>
    </ipv6-disable-default-icmpv6-rule><!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
no 268435453 permit icmpv6 any any
```

Configure acl-set ipv6-disable-default-icmpv6-rule

Use this attribute to inform that the default icmpv6 rule is disable for the IPv6 ACL.

Attribute Name: ipv6-disable-default-icmpv6-rule

Attribute Type: uint8

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
      </ipv6-disable-default-icmpv6-rule><!-- operation="delete"-->
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
no 268435453
```

Configure starting sequence number

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <re-sequence>
    <config>
      <increment-steps>1</increment-steps> <!-- operation="delete"-->
      <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
    </config>
  </re-sequence>
</acl>

```

Command Syntax

```
resequence <1-268435453> <1-268435453>
```

Configure increment steps

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <re-sequence>
    <config>
      <increment-steps>1</increment-steps> <!-- operation="delete"-->

```

```

        <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
    </config>
</re-sequence>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
resequence <1-268435453> <1-268435453>
```

Configure re-sequence starting-sequence-number

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <re-sequence>
    <config>
      <increment-steps>1</increment-steps> <!-- operation="delete"-->
      <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
    </config>
  </re-sequence>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
resequence <1-268435453> <1-268435453>
```

Configure forwarding action default

Use this attribute to set default forwarding action

Attribute Name: forwarding-action-default

Attribute Type: enum (deny-all|permit-all)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <default-actions>
    <config>
      <forwarding-action-default>deny-all</forwarding-action-default> <!--
operation="delete"-->
    </config>
  </default-actions>
</acl>
```

Command Syntax

```
default (deny-all|permit-all)
```

Configure inner vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
  (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure sequence id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-
  4094>|) (inner-vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
```

```

<config>
  <sequence-id>1</sequence-id>
</config>
<ipv4>
<config>
  <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
  </protocol-tcp><!-- operation="delete"-->
  <source-address>any</source-address> <!-- operation="delete"-->
  <destination-address>any</destination-address> <!-- operation="delete"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
</config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network|<0-7>)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure protocol tcp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
```

```
65535>) ({ack|established|fin|psh|rst|syn|urg}||) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source address

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
```

```

<acl-entries>
<acl-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-tcp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
      <dscp>default</dscp> <!-- operation="delete"-->
      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure destination address

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure lower destination port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535>
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure upper destination port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
    </acl-entry>
  </acl-entries>
</acl>
```

```

    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-tcp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
      <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
      <dscp>default</dscp> <!-- operation="delete"-->
      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure precedence

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source port operator

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>
```

```

        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
        <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure tcp source port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
```

```

    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-tcp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
      <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
      <dscp>default</dscp> <!-- operation="delete"-->
      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure destination port operator

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</config>
<ipv4>
<config>
  <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
  </protocol-tcp><!-- operation="delete"-->
  <source-address>any</source-address> <!-- operation="delete"-->
  <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
>
  <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
  <destination-address>any</destination-address> <!-- operation="delete"-->
  <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
  <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
</config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure tcp flags

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
        <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> ({ack|established|fin|psh|rst|syn|urg}|) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure dscp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
          <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
        </config>
        <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
      </config>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
          <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-
4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
```

```

<config>
  <sequence-id>1</sequence-id>
</config>
<ipv4>
<config>
  <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
  </protocol-tcp><!-- operation="delete"-->
  <source-address>any</source-address> <!-- operation="delete"-->
  <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
>
  <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
  <destination-address>any</destination-address> <!-- operation="delete"-->
  <dscp>default</dscp> <!-- operation="delete"-->
  <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
</config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
        </config>
        <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure lower source port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
```



```
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
({ack|established|fin|psh|rst|syn|urg|}) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure upper source port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure tcp destination port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
```

```

    <config>
      <type>mac</type>
      <name>WORD</name>
    </config>
    <name>NAME</name>
  <acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-tcp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
      <precedence>routine</precedence> <!-- operation="delete"-->
      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
```

```

    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
```

```

        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure protocol udp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <destination-address>any</destination-address> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
    </acl-set>
  </acl-sets>
</acl>

```



```

    </config>
    <name>NAME</name>
  <acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-udp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <dscp>default</dscp> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)
```

Configure udp destination port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">

```

```

<acl-sets>
<acl-set>
  <type>mac</type>
  <config>
    <type>mac</type>
    <name>WORD</name>
  </config>
  <name>NAME</name>
<acl-entries>
<acl-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv4>
  <config>
    <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
    </protocol-udp><!-- operation="delete"-->
    <source-address>any</source-address> <!-- operation="delete"-->
    <destination-address>any</destination-address> <!-- operation="delete"-->
    <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
    <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
    <dscp>default</dscp> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
```

```

        <precedence>routine</precedence> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (vlan <1-
4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
```

```

        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure udp source port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
          <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <destination-address>any</destination-address> <!-- operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (vlan <1-4094>|) (inner-vlan
<1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
          </config>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
            >
              <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </config>
          </ipv4>
        </acl-entry>
      </acl-entries>
    </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
        </config>
        <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
    </ipv4>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
```



```
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
    </acl-set>
  </acl-sets>
</acl>
```

```

    <name>NAME</name>
  <acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-udp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
    >
      <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
      <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
        </config>
        <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
    </ipv4>
  </acl-entry>
</acl>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
  <type>mac</type>
</config>

```

```

        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
        <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
          <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```



```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
  <type>mac</type>

```

```

    <config>
      <type>mac</type>
      <name>WORD</name>
    </config>
    <name>NAME</name>
  <acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-udp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
      <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <precedence>routine</precedence> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```

        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (vlan <1-4094>|) (inner-vlan
<1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
</acl>
```



```

<acl-entries>
<acl-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv4>
    <config>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </protocol-udp><!-- operation="delete"-->
      <source-address>any</source-address> <!-- operation="delete"-->
      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
      <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
      <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```

        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
  <type>mac</type>
</config>

```

```

        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
    </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (vlan <1-
4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
```

```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>

```



```

        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!-- operation="delete"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)

```

Configure protocol icmp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-icmp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-icmp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
```

```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
  <type>mac</type>
  <config>
    <type>mac</type>
    <name>WORD</name>
  </config>
  <name>NAME</name>
</acl-set>
</acl-sets>
<acl-entries>
<acl-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
</acl-entry>
</acl-entries>
</acl>

```

```

</config>
<ipv4>
<config>
  <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
</protocol-icmp><!-- operation="delete"-->
  <source-address>any</source-address> <!-- operation="delete"-->
  <destination-address>any</destination-address> <!-- operation="delete"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
</config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)

```

Configure protocol name

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
  <acl-set>

```

```

    <type>mac</type>
  <config>
    <type>mac</type>
    <name>WORD</name>
  </config>
  <name>NAME</name>
<acl-entries>
<acl-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <ipv4>
  <config>
    <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
    <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
    <source-address>any</source-address> <!-- operation="delete"-->
    <destination-address>any</destination-address> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit)
(igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any)
(any) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) (any)
  dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <type>mac</type>
      <config>
        <type>mac</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```



```

        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) (any)
  precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)

```

Configure standard-acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the standard ACL set (ip, ipv6)

Attribute Name: type

Attribute Type: enum (standard_ip|standard_ipv6)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <standard-acl-sets>
  <standard-acl-set>
    <type>standard_ip</type>
    <config>
      <type>standard_ip</type>
      <name>WORD</name>
    </config>
    <name>NAME</name>
  </standard-acl-set>
</standard-acl-sets>
</acl>

```

Command Syntax

```
ip access-list standard NAME
```

Configure standard-acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the standard ACL set (ip, ipv6)

Attribute Name: type

Attribute Type: enum (standard_ip|standard_ipv6)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <standard-acl-sets>

```

```

<standard-acl-set>
  <type>standard_ipv6</type>
  <config>
    <type>standard_ipv6</type>
    <name>WORD</name>
  </config>
  <name>NAME</name>
</standard-acl-set>
</standard-acl-sets>
</acl>

```

Command Syntax

```
ipv6 access-list standard NAME
```

Configure ipv4-acl-entry source-address

Source IPv4 address prefix.

Attribute Name: source-address

Attribute Type: union

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <standard-acl-sets>
    <standard-acl-set>
      <type>standard_ip</type>
      <config>
        <type>standard_ip</type>
        <name>WORD</name>
      </config>
      <name>NAME</name>
    </standard-acl-set>
  </standard-acl-sets>
  <ipv4-acl-entries>
    <ipv4-acl-entry>
      <source-address>any</source-address>
      <config>
        <source-address>any</source-address>
        <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
      </config>
    </ipv4-acl-entry>
  </ipv4-acl-entries>
</standard-acl-set>
</standard-acl-sets>
</acl>

```

Command Syntax

```
(deny|permit) (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
```

IPI-ACL-IPV6

Configure vlan id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: dscp

Attribute Type: union

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
```

```

operation="delete"-->      <destination-address>any</destination-address> <!--
                             <dscp>default</dscp> <!-- operation="delete"-->
                             <vlan-id>1</vlan-id> <!-- operation="delete"-->
                             </config>
                        </ipv6>
                    </acl-entry>
                </acl-entries>
            </acl-set>
        </acl-sets>
    </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any|X:X::X:X/M|X:X::X:X X:X::X:X)
    (any|X:X::X:X/M|X:X::X:X X:X::X:X) (dscp
    (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
    af43|cs5|ef|cs6|cs7|<0-63>)|) (vlan <1-4094>|)

```

Configure name

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```

<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure type

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

```

                                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                                <dscp>default</dscp> <!-- operation="delete"-->
                                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure sequence id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```


Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> (dscp
```

```
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol tcp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <ipv6>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure source address

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!--
operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
```

```

operation="delete"-->      <tcp-destination-port>echo</tcp-destination-port> <!--
                             <dscp>default</dscp> <!-- operation="delete"-->
                             <vlan-id>1</vlan-id> <!-- operation="delete"-->
                             </config>
                             </ipv6>
                             </acl-entry>
                             </acl-entries>
                             </acl-set>
                             </acl-sets>
                             </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure lower source port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-65535> <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure upper source port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
```



```

    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure protocol udp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure destination address

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
```

```

operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure lower destination port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure source port operator

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
          <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!--
operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
      </ipv6>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure udp source port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
          <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!--
operation="delete"-->
```



```

                                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                                <dscp>default</dscp> <!-- operation="delete"-->
                                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure dscp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure destination port operator

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>
```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv6>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-address>any</destination-address> <!--
operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
      </ipv6>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure upper destination port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
```

```

operation="delete"--> <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"--> <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"--> <destination-address>any</destination-address> <!--
range> <!-- operation="delete"--> <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"--> <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"--> <dscp>default</dscp> <!-- operation="delete"-->
                                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol icmp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-icmp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```



```

        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure protocol sctp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>

```

```

        <config>
          <sequence-id>1</sequence-id>
        </config>
      <ipv6>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-sctp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!--
operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
      </ipv6>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (any) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure sctp destination port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-sctp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) (any) (eq|lt|gt) <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-sctp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <dscp>default</dscp> <!-- operation="delete"-->
                <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (any) range <0-65535> <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure sctp source port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-sctp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
```

```

        <sequence-id>1</sequence-id>
        <config>
            <sequence-id>1</sequence-id>
        </config>
        <ipv6>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-sctp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
->
            <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
operation="delete"-->
            <destination-address>any</destination-address> <!--
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) (eq|lt|gt) <0-
65535> (dscp
    (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
    af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-sctp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
->
```

```

        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
    </config>
</ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) range <0-
65535> <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-sctp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <ipv6>
        <config>
operation="delete"-->    <forwarding-action>deny</forwarding-action> <!--
        </protocol-sctp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any)
(eq|lt|gt) <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-sctp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
```

```

                                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                                <dscp>default</dscp> <!-- operation="delete"-->
                                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure protocol name

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum

(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
</acl>

```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <ipv6>
                <config>
                    <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                    <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                    <source-address>any</source-address> <!-- operation="delete"-->
                    <destination-address>any</destination-address> <!--
operation="delete"-->
                    <dscp>default</dscp> <!-- operation="delete"-->
                    <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
            </ipv6>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit)
(ipipv6|ipv6ipv6|rsvp|gre|esp|ahp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any) (any)
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)

```

Configure ipv6-acl-entry source-address

Source IPv6 address prefix.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: source-address

Attribute Type: union

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <standard-acl-sets>
    <standard-acl-set>

```



```

    <name>NAME</name>
    <config>
        <name>WORD</name>
        <type>standard_ip</type>
    </config>
    <type>standard_ip</type>
    <ipv6-acl-entries>
    <ipv6-acl-entry>
        <source-address>any</source-address>
        <config>
            <source-address>any</source-address>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
        </config>
    </ipv6-acl-entry>
    </ipv6-acl-entries>
</standard-acl-set>
</standard-acl-sets>
</acl>

```

Command Syntax

(deny|permit) (any|X:X::X:X/M|X:X::X:X X:X::X:X)

IPI-ACL-ARP

Configure source mac any

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: union

Attribute Name: destination-ip-address

Attribute Type: union

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <arp>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
              <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
              <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
              </destination-mac-any><!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              </source-mac-any><!-- operation="delete"-->
            </config>
          </arp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) response ip (any|host A.B.C.D|A.B.C.D/M|A.B.C.D
A.B.C.D) (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D) mac any any (vlan <1-
4094>|) (inner-vlan <1-4094>|)
```

Configure name

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <arp>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
              <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
              <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
```

```

        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </source-mac-any><!-- operation="delete"-->
    </config>
</arp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac any host (XX-XX-XX-XX-
XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure type

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
            <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
            <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </source-mac-any><!-- operation="delete"-->
          </config>
        </arp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) response ip (any) (any) mac any (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source mac host

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
          </config>
        </arp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

```

        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
    </config>
</arp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure sequence id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>

```

```

    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <arp>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
          <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
          <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
          <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
        </config>
      </arp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure forwarding action

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
            <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
            <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
```

```

        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
    </config>
</arp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure source mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```

<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
            <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
          </config>
        </arp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure arp packet type

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
```

```

        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
    </config>
</arp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure source ip address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
            </config>
            <arp>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              </config>
            </arp>
          </acl-entry>
        </acl-entries>
      </acl-set>
    </acl-sets>
  </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
```

```

XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure vlan id

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
          </config>
        </arp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

```

operation="delete"-->      <source-ip-address>any</source-ip-address> <!--
                             <vlan-id>1</vlan-id> <!-- operation="delete"-->
                             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                             </source-mac-any><!-- operation="delete"-->
                        </config>
                    </arp>
                </acl-entry>
            </acl-entries>
        </acl-set>
    </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) ((request)|) ip (any) mac any (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure inner vlan id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>

```



```

    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <arp>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
          </config>
        </arp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) ((request)|) ip (any) mac host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure source mac mask

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
            </config>
            <arp>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                </config>
              </arp>
            </acl-entry>
          </acl-entries>
        </acl-set>
      </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) ((request)|) ip (any) mac (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

IPI-ACL-MAC

Configure source mac any

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
```

```

operation="delete"--> <forwarding-action>deny</forwarding-action> <!--
                        </destination-mac-any><!-- operation="delete"-->
operation="delete"--> <arp-packet-type>none</arp-packet-type> <!--
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) any any arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)
```

Configure name

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```

<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
            <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
            <cos-value>0</cos-value> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </source-mac-any><!-- operation="delete"-->
          </config>
        </mac>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure type

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
              <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
              <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              </source-mac-any><!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure source mac host

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-entries>
  </acl-sets>
</acl>

```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <mac>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </destination-mac-any><!-- operation="delete"-->
          <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
          <cos-value>0</cos-value> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
        </config>
      </mac>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any arp (cos <0-7>|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)

```

Configure sequence id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
              <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```

        <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"-->
>
        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
        <cos-value>0</cos-value> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
    </config>
    </mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure source mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
            </config>
            <mac>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                </destination-mac-any><!-- operation="delete"-->
                <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                <cos-value>0</cos-value> <!-- operation="delete"-->
                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              </config>
            </mac>
          </acl-entry>
        </acl-entries>
      </acl-set>
    </acl-sets>
  </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any arp (cos <0-7>|) (vlan <1-4094>|)
(inner-vlan <1-4094>|)
```

Configure source mac mask

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```

        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
        <cos-value>0</cos-value> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
    </config>
</mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure destination mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
              <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
              <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
              <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)
```

Configure learn disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </source-mac-any><!-- operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
            </learn-disable><!-- operation="delete"-->
          </config>
        </mac>
      </acl-entry>
    </acl-entries>
```



```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) any any (learn-disable|)
```

Configure destination mac host

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </source-mac-any><!-- operation="delete"-->
              <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
              </learn-disable><!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)

```

Configure destination mac mask

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </source-mac-any><!-- operation="delete"-->
              <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>

```

```

        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
        </learn-disable><!-- operation="delete"-->
    </config>
</mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)

```

Configure destination mac any

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <mac>
      <config>

```

```

operation="delete"-->      <forwarding-action>deny</forwarding-action> <!--
                             <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                             </destination-mac-any><!-- operation="delete"-->
                             </learn-disable><!-- operation="delete"-->
                        </config>
                    </mac>
                </acl-entry>
            </acl-entries>
        </acl-set>
    </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (learn-disable|)

```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      <mac>

```

```

        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
            <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
            </learn-disable><!-- operation="delete"-->
        </config>
    </mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)

```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>

```

```

        <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <mac>
    <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
        <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
        </learn-disable><!-- operation="delete"-->
    </config>
</mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)

```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>

```

```

    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
            <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
            </learn-disable><!-- operation="delete"-->
          </config>
        </mac>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (learn-disable|)

```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
              <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
              </learn-disable><!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
              <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"-->
              <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
              </learn-disable><!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure inner vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: union

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
```

```

        </config>
        <mac>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </source-mac-any><!-- operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
            <ethertype>ipv4</ethertype> <!-- operation="delete"-->
            <cos-value>0</cos-value> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </config>
    </mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any any ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-
8042|appletalk|arp|ipv6|mpls|ETHTYPE)|) (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|)

```

Configure ethertype

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </source-mac-any><!-- operation="delete"-->
              <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
              <ethertype>ipv4</ethertype> <!-- operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)|)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure cos value

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </source-mac-any><!-- operation="delete"-->
            <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
            <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
```

```

        <ethertype>ipv4</ethertype> <!-- operation="delete"-->
        <cos-value>0</cos-value> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)|)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>

```

```

    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
            </destination-mac-any><!-- operation="delete"-->
            <ethertype>ipv4</ethertype> <!-- operation="delete"-->
            <cos-value>0</cos-value> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          </config>
        </mac>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any ((ipv4|vines-echo|etype-6000|mop-
dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-
8042|appletalk|aarp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|)

```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
              <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
              <ethertype>ipv4</ethertype> <!-- operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
```



```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
```

```

    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <mac>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
            <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
            <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
            <ethertype>ipv4</ethertype> <!-- operation="delete"-->
            <cos-value>0</cos-value> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          </config>
        </mac>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)|)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
              </destination-mac-any><!-- operation="delete"-->
              <ethertype>ipv4</ethertype> <!-- operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any ((ipv4|vines-echo|etype-6000|mop-
dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-
8042|appletalk|arp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

</config>
  <type>mac</type>
<acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <mac>
      <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
        <ethertype>ipv4</ethertype> <!-- operation="delete"-->
        <cos-value>0</cos-value> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
    </mac>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)|)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <mac>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
              <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
              <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"-->
              <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
              <ethertype>ipv4</ethertype> <!-- operation="delete"-->
              <cos-value>0</cos-value> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</mac>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ( (ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|arp|ipv6|mpls) |)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)

```

IPI-ACL-PORTS

Configure acl name

The name of the access-list set applied on the interface

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <ingress-acl-sets>
    <ingress-acl-set>
        <acl-type>ip</acl-type>
        <config>
            <acl-type>ip</acl-type>
        </config>
        <access-groups>
        <access-group> <!-- operation="delete"-->
            <acl-name>WORD</acl-name>
            <config>
                <acl-name>WORD</acl-name>
            </config>
        </access-group>
    </ingress-acl-set>
    </ingress-acl-sets>
    </interface>
</interfaces>
</acl>

```

```

    </access-groups>
  </ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
ip access-group NAME in
```

Configure name

The name of the access-list set applied on the interface

Attribute Name: acl-name

Attribute Type: string

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ingress-acl-sets>
        <ingress-acl-set>
          <acl-type>mac</acl-type>
          <config>
            <acl-type>mac</acl-type>
          </config>
          <access-groups>
            <access-group>
              <acl-name>WORD</acl-name>
              <config>
                <acl-name>WORD</acl-name>
                <time-range>WORD</time-range>
              </config>
            </access-group>
          </access-groups>
        </ingress-acl-set>
      </ingress-acl-sets>
    </interface>
  </interfaces>
</acl>

```


Command Syntax

```
ip access-group NAME in time-range WORD
```

Configure acl type

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ingress-acl-sets>
        <ingress-acl-set>
          <acl-type>ipv6</acl-type>
          <access-groups>
            <access-group>
              <acl-name>WORD</acl-name>
            </access-group>
          </access-groups>
        </ingress-acl-set>
      </ingress-acl-sets>
    </interface>
  </interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME in
```

Configure time range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <ingress-acl-sets>
  <ingress-acl-set>
    <acl-type>mac</acl-type>
    <config>
      <acl-type>mac</acl-type>
    </config>
    <access-groups>
    <access-group>
      <acl-name>WORD</acl-name>
      <config>
        <acl-name>WORD</acl-name>
      </config>
      <time-range>WORD</time-range> <!-- operation="delete"-->
    </access-group>
  </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
ipv6 access-group NAME in time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>

```

```

    <ingress-acl-sets>
    <ingress-acl-set>
      <acl-type>arp</acl-type>
      <access-groups>
      <access-group>
        <acl-name>WORD</acl-name>
      </access-group>
    </access-groups>
  </ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
arp access-group NAME in
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
  <interface> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <ingress-acl-sets>
    <ingress-acl-set>
      <acl-type>mac</acl-type>
      <access-groups>
      <access-group>
        <acl-name>WORD</acl-name>
      </access-group>
    </access-groups>
  </ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
mac access-group NAME in
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ingress-acl-sets>
        <ingress-acl-set>
          <acl-type>mac</acl-type>
          <config>
            <acl-type>mac</acl-type>
          </config>
          <access-groups>
            <access-group>
              <acl-name>WORD</acl-name>
              <config>
                <acl-name>WORD</acl-name>
                <time-range>WORD</time-range> <!-- operation="delete"-->
              </config>
            </access-group>
          </access-groups>
        </ingress-acl-set>
      </ingress-acl-sets>
    </interface>
  </interfaces>
</acl>
```

Command Syntax

```
mac access-group NAME in time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <egress-acl-sets>
        <egress-acl-set>
          <acl-type>ip</acl-type>
          <access-groups>
            <access-group>
              <acl-name>WORD</acl-name>
            </access-group>
          </access-groups>
        </egress-acl-set>
      </egress-acl-sets>
    </interface>
  </interfaces>
</acl>
```

Command Syntax

```
ip access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <egress-acl-sets>
        <egress-acl-set>
          <acl-type>mac</acl-type>
          <config>
            <acl-type>mac</acl-type>
```

```

    </config>
    <access-groups>
    <access-group>
        <acl-name>WORD</acl-name>
        <config>
            <acl-name>WORD</acl-name>
        </config>
        <time-range>WORD</time-range> <!-- operation="delete"-->
    </access-group>
    </access-groups>
</egress-acl-set>
</egress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
ip access-group NAME out time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <egress-acl-sets>
    <egress-acl-set>
        <acl-type>ipv6</acl-type>
        <access-groups>
        <access-group>
            <acl-name>WORD</acl-name>
        </access-group>
        </access-groups>
    </egress-acl-set>
    </egress-acl-sets>
</interface>

```

```
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <egress-acl-sets>
  <egress-acl-set>
    <acl-type>mac</acl-type>
    <config>
      <acl-type>mac</acl-type>
    </config>
    <access-groups>
    <access-group>
      <acl-name>WORD</acl-name>
      <config>
        <acl-name>WORD</acl-name>
      </config>
      <time-range>WORD</time-range> <!-- operation="delete"-->
    </access-group>
  </access-groups>
</egress-acl-set>
</egress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <egress-acl-sets>
        <egress-acl-set>
          <acl-type>mac</acl-type>
          <access-groups>
            <access-group>
              <acl-name>WORD</acl-name>
            </access-group>
          </access-groups>
        </egress-acl-set>
      </egress-acl-sets>
    </interface>
  </interfaces>
</acl>
```

Command Syntax

```
mac access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ingress-acl-sets>
        <ingress-acl-set>
```



```

    <acl-type>mac</acl-type>
  <config>
    <acl-type>mac</acl-type>
  </config>
  <access-groups>
  <access-group>
    <acl-name>WORD</acl-name>
    <config>
      <acl-name>WORD</acl-name>
    </config>
    <time-range>WORD</time-range> <!-- operation="delete"-->
  </access-group>
</access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
mac access-group NAME out time-range WORD
```

Configure ingress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <vty-line>
  <ingress-acl-sets>
  <ingress-acl-set>
    <acl-type>ip</acl-type>
    <config>
      <acl-type>ip</acl-type>
    </config>
    <acl-name>NAME</acl-name> <!-- operation="delete"-->
  </ingress-acl-set>
</ingress-acl-sets>
</vty-line>
</acl>

```

Command Syntax

```
ip access-group NAME in
```

Configure ingress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <vty-line>
    <ingress-acl-sets>
      <ingress-acl-set>
        <acl-type>ip</acl-type>
        <config>
          <acl-type>ip</acl-type>
        </config>
        <acl-name>NAME</acl-name> <!-- operation="delete"-->
      </ingress-acl-set>
    </ingress-acl-sets>
  </vty-line>
</acl>
```

Command Syntax

```
ipv6 access-group NAME in
```

Configure egress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <vty-line>
    <egress-acl-sets>
      <egress-acl-set>
        <acl-type>ip</acl-type>
        <config>
          <acl-type>ip</acl-type>
        </config>
        <acl-name>NAME</acl-name> <!-- operation="delete"-->
      </egress-acl-set>
    </egress-acl-sets>
  </vty-line>
</acl>
```

Command Syntax

```
ip access-group NAME out
```

Configure egress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <vty-line>
    <egress-acl-sets>
      <egress-acl-set>
        <acl-type>ip</acl-type>
        <config>
          <acl-type>ip</acl-type>
        </config>
        <acl-name>NAME</acl-name> <!-- operation="delete"-->
      </egress-acl-set>
    </egress-acl-sets>
  </vty-line>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out
```

clear access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-access-list-counters-all xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear access-list counters
```

clear access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-access-list-counters xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-acl">
  <name>NAME</name>
</ipi-acl-ports_clear-access-list-counters>
```

Command Syntax

```
clear access-list NAME counters
```

clear ip access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-ip-access-list-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear ip access-list counters
```

clear ip access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-ip-access-list-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <name>NAME</name>
</ipi-acl-ports_clear-ip-access-list-counters>
```

Command Syntax

```
clear ip access-list NAME counters
```

clear ipv6 access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-ipv6-access-list-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear ipv6 access-list counters
```

clear ipv6 access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-ipv6-access-list-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <name>NAME</name>
</ipi-acl-ports_clear-ipv6-access-list-counters>
```

Command Syntax

```
clear ipv6 access-list NAME counters
```

clear mac access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-mac-access-list-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear mac access-list counters
```

clear mac access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-mac-access-list-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <name>NAME</name>
</ipi-acl-ports_clear-mac-access-list-counters>
```

Command Syntax

```
clear mac access-list NAME counters
```

clear arp access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-arp-access-list-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear arp access-list counters
```

clear arp access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-arp-access-list-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <name>NAME</name>
</ipi-acl-ports_clear-arp-access-list-counters>
```

Command Syntax

```
clear arp access-list NAME counters
```

IPI-ACL-COPP

Configure log action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
```

```

        <sequence-id>1</sequence-id>
    </config>
    <sequence-id>1</sequence-id>
</config>
<copp>
<ipv4>
<config>
    <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
    </protocol-tcp><!-- operation="delete"-->
    <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
    <destination-address>any</destination-address> <!--
    </fragments><!-- operation="delete"-->
    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
    <ttl>0</ttl> <!-- operation="delete"-->
    </ip-options><!-- operation="delete"-->
    <log-action>1</log-action> <!-- operation="delete"-->
</config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
(any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D) (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure name

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
```



```

        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure type

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535>
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)

```

Configure sequence id

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|))

```

Configure forwarding action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any)
(fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure protocol tcp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
```

```

    <config>
      <sequence-id>1</sequence-id>
    </config>
  <copp>
    <ipv4>
      <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
      </config>
    </ipv4>
  </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure source address

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
                <config>
                    <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                    </protocol-tcp><!-- operation="delete"-->
                    <source-address>any</source-address> <!-- operation="delete"-->
                    <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                    <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                    <destination-address>any</destination-address> <!--
operation="delete"-->
                    <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                    <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                    </fragments><!-- operation="delete"-->
                    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure lower source port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|))

```

Configure upper source port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-

```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))
```

Configure source prefix group

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>
```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure destination address

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->

```

```

operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bcp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure lower destination port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
```

```

        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttd>0</ttd> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ip4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) range <0-65535> <0-
65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttd <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure source port operator

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure fragments

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
(any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))
```

Configure tcp source port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))
```

Configure upper destination port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
```

```

        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure tcp flags

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->

```

```

        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
(any) range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure destination port operator

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
```

```

operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bpg|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)

```

Configure destination prefix group

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)
```

Configure tcp destination port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure ttl

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
```

```

    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            </fragments><!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD range <0-
65535> <0-65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ip options

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
```

```

        <config>
            <sequence-id>1</sequence-id>
        </config>
    <copp>
        <ipv4>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
        </ipv4>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```



```

        <copp>
        <ipv4>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      <copp>
```

```

        <ipv4>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
                <config>
                    <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                    </protocol-tcp><!-- operation="delete"-->
                    <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                    <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                    <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                    <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                    <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                    <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                    </fragments><!-- operation="delete"-->
                    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|) |)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>

```

```

        </config>
        <copp>
        <ipv4>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty
 Attribute Name: source-address
 Attribute Type: enum (any)
 Attribute Name: destination-prefix-group
 Attribute Type: string
 Default Value: ?
 Attribute Name: lower-destination-port-in-range
 Attribute Type: uint16
 Attribute Range: 0-65535
 Attribute Name: upper-destination-port-in-range
 Attribute Type: uint16
 Attribute Range: 0-65535
 Attribute Name: fragments
 Attribute Type: empty
 Attribute Name: tcp-flags
 Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)
 Attribute Name: ttl
 Attribute Type: uint8
 Attribute Range: 0-255
 Attribute Name: ip-options
 Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```

        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD range <0-65535> <0-
65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
```



```

        <ttl>0</ttl> <!-- operation="delete"-->
    </ip-options><!-- operation="delete"-->
    <log-action>1</log-action> <!-- operation="delete"-->
</config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
```

```

        </fragments><!-- operation="delete"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>

```



```

operation="delete"-->      <destination-prefix-group>WORD</destination-prefix-group> <!--
range> <!-- operation="delete"-->      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->      </fragments><!-- operation="delete"-->
                                <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                                <ttl>0</ttl> <!-- operation="delete"-->
                                </ip-options><!-- operation="delete"-->
                                <log-action>1</log-action> <!-- operation="delete"-->
                                </config>
                                </ipv4>
                                </copp>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD range <0-65535> <0-65535> (fragments|)
({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```

operation="delete"--> <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg|}) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure protocol udp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (fragments|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)
```

Configure udp destination port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
    </acl-set>
  </acl-sets>
</acl>
```

```

        <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
        </ipv4>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (fragments|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
```

```

        <source-address>any</source-address> <!-- operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535>
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure udp source port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```

    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any)
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv4>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
        </ipv4>
        </copp>
        </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv4>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
        </ipv4>
        </copp>
        </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty
Attribute Name: source-address
Attribute Type: enum (any)
Attribute Name: lower-source-port-in-range
Attribute Type: uint16
Attribute Range: 0-65535
Attribute Name: upper-source-port-in-range
Attribute Type: uint16
Attribute Range: 0-65535
Attribute Name: destination-address
Attribute Type: enum (any)
Attribute Name: lower-destination-port-in-range
Attribute Type: uint16
Attribute Range: 0-65535
Attribute Name: upper-destination-port-in-range
Attribute Type: uint16
Attribute Range: 0-65535
Attribute Name: fragments
Attribute Type: empty
Attribute Name: ttl
Attribute Type: uint8
Attribute Range: 0-255
Attribute Name: ip-options
Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```



```

        <copp>
        <ipv4>
        <config>
operation="delete"-->    <forwarding-action>deny</forwarding-action> <!--
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->    <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->    <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->    <destination-address>any</destination-address> <!--
operation="delete"-->    <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
```

```

operation="delete"--> <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"--> <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
```

```

        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
```

```

        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) range <0-65535> <0-
65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
```

```

        </ipv4>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (fragments|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)

```

```
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
```

```
s=ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log
(<1-16777215>|) |)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) (eq)
```

```
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
```

```

        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
```



```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```

<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-
16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv4>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
</acl>
```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

</config>
  <type>mac</type>
<acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <copp>
      <ipv4>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
          </fragments><!-- operation="delete"-->
          <ttl>0</ttl> <!-- operation="delete"-->
          </ip-options><!-- operation="delete"-->
          <log-action>1</log-action> <!-- operation="delete"-->
        </config>
      </ipv4>
    </copp>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
```

```

    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->

```

```

        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (fragments|) (ttl <0-
255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
```

```
s|ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
```



```

    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD range <0-65535> <0-
65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```

        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        </fragments><!-- operation="delete"-->
        <ttl>0</ttl> <!-- operation="delete"-->
        </ip-options><!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

```

        </ipv4>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```



```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log
(<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)
```

Configure protocol icmp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
```

```

        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <icmp-type>0</icmp-type> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) (fragments|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)

```

Configure icmp type

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>

```



```

    <name>NAME</name>
    <config>
        <name>WORD</name>
        <type>mac</type>
    </config>
        <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
                <ipv4>
                    <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-icmp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <icmp-type>0</icmp-type> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp prefix-group WORD (any) <0-255> (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv4>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-icmp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <ttl>0</ttl> <!-- operation="delete"-->
              </ip-options><!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
```

```

        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp prefix-group WORD (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <icmp-type>0</icmp-type> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp prefix-group WORD prefix-group WORD <0-255>
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->

```

```

operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp prefix-group WORD prefix-group WORD
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <icmp-type>0</icmp-type> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) prefix-group WORD <0-255> (fragments|)
(ttl <0-255>|) (ip-options|) (log (<1-16777215>|))|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```



```

        <ipv4>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-icmp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) prefix-group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|))
```

Configure protocol name

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
(igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any)
(any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <ipv4>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv4>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) prefix-group
  WORD (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv4>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                </fragments><!-- operation="delete"-->
                <ttl>0</ttl> <!-- operation="delete"-->
                </ip-options><!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv4>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) prefix-group
  WORD prefix-group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
  </acl-sets>
```

```

    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv4>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
            </fragments><!-- operation="delete"-->
            <ttl>0</ttl> <!-- operation="delete"-->
            </ip-options><!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) prefix-
  group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)

```

Configure hop limit

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any|X:X::X:X/M) (any|X:X::X:X/M) (hop-limit <0-255>|) (log (<1-16777215>|))|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    </acl-set>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
```

```

operation="delete"--> <forwarding-action>deny</forwarding-action> <!--
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"--> <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                        </config>
                        </ipv6>
                        </copp>
                        </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> (hop-limit
<0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
```

```

        <sequence-id>1</sequence-id>
    </config>
    <copp>
    <ipv6>
    <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
    </ipv6>
    </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
65535>) (any) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (hop-limit
<0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-

```



```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
    </acl-set>
  </acl-sets>
</acl>
</config>
```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
            </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv6>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-tcp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
```

```

operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (hop-limit <0-255>|)
(log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
```



```

operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) range <0-65535> <0-
65535> (hop-limit <0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <copp>
        <ipv6>
        <config>
operation="delete"-->    <forwarding-action>deny</forwarding-action> <!--
                        </protocol-tcp><!-- operation="delete"-->
operation="delete"-->    <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->    <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->    <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->    <destination-address>any</destination-address> <!--
operation="delete"-->    <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </acl-entry>
        </acl-entries>
      </acl-set>
    </acl-sets>
  </acl>
```

```

    </copp>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
(any) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpad|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpad|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|p
im-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
            </ipv6>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
(any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <copp>
        <ipv6>
        <config>
operation="delete"-->    <forwarding-action>deny</forwarding-action> <!--
        </protocol-tcp><!-- operation="delete"-->
operation="delete"-->    <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->    <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->    <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->    <destination-address>any</destination-address> <!--
operation="delete"-->    <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->    <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->    <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (hop-limit
<0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
```

```

    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```

        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD range <0-
65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
```

```

    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->

```

```

operation="delete"--> <source-port-operator>eq</source-port-operator> <!--
operation="delete"--> <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"--> <hop-limit>0</hop-limit> <!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv6>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```



```

operation="delete"-->      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->      <destination-prefix-group>WORD</destination-prefix-group> <!--
range> <!-- operation="delete"-->      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                                <log-action>1</log-action> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </copp>
                                </acl-entry>
                                </acl-entries>
                                </acl-set>
                                </acl-sets>
                                </acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```

                                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                                <log-action>1</log-action> <!-- operation="delete"-->
                                </config>
                                </ipv6>
                                </copp>
                                </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lldp|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </config>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

    </copp>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
    </acl-set>
  </acl-sets>
</acl>

```

```

    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (hop-limit <0-255>|)
(log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (eq)
(echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">

```



```

<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
      <name>WORD</name>
      <type>mac</type>
    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv6>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD range <0-65535> <0-
65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```

```

operation="delete"-->      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->      <destination-prefix-group>WORD</destination-prefix-group> <!--
                             <hop-limit>0</hop-limit> <!-- operation="delete"-->
                             <log-action>1</log-action> <!-- operation="delete"-->
                             </config>
                             </ipv6>
                             </copp>
                             </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD (hop-limit <0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

    </config>
    <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
```

```

        <config>
            <sequence-id>1</sequence-id>
        </config>
    <copp>
        <ipv6>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-tcp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
        </ipv6>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
```

```

operation="delete"--> <forwarding-action>deny</forwarding-action> <!--
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"--> <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"--> <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"--> <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                        </config>
                    </ipv6>
                </copp>
            </acl-entry>
        </acl-entries>
    </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
```

```

operation="delete"-->
    <tcp-destination-port>echo</tcp-destination-port> <!--
    <hop-limit>0</hop-limit> <!-- operation="delete"-->
    <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>

```

```

    <name>NAME</name>
    <config>
        <name>WORD</name>
        <type>mac</type>
    </config>
        <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
                <ipv6>
                    <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (hop-limit <0-255>|)
(log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>

```

```

<acl-set>
  <name>NAME</name>
  <config>
    <name>WORD</name>
    <type>mac</type>
  </config>
  <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv6>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (hop-limit
<0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
```

```

        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (hop-limit <0-
255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (hop-limit
<0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
        <ipv6>
        <config>
```

```

operation="delete"--> <forwarding-action>deny</forwarding-action> <!--
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"--> <udp-source-port>echo</udp-source-port> <!--
operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"--> <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|) |)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
```

```

        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```



```

        </ipv6>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
```

```

operation="delete"--> <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"--> <destination-address>any</destination-address> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (hop-limit <0-255>|)
(log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|) |)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv6>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
        </ipv6>
        </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) range <0-65535> <0-
65535> (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (hop-limit <0-255>|) (log
(<1-16777215>|) |)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
    <name>NAME</name>
    <config>
```

```

        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
            </ipv6>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

operation="delete"--> <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"--> <source-port-operator>eq</source-port-operator> <!--
operation="delete"--> <udp-source-port>echo</udp-source-port> <!--
operation="delete"--> <destination-address>any</destination-address> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"--> <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
              <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
```

```

        <destination-address>any</destination-address> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
```

```

        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
(any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
```

```

        <config>
            <sequence-id>1</sequence-id>
        </config>
    </copp>
    <ipv6>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (hop-limit
<0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|) |)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
  <acl-set>
```

```

    <name>NAME</name>
    <config>
        <name>WORD</name>
        <type>mac</type>
    </config>
    <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
                <ipv6>
                    <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD range <0-
65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```

```

operation="delete"-->      <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->      <destination-prefix-group>WORD</destination-prefix-group> <!--
                             <hop-limit>0</hop-limit> <!-- operation="delete"-->
                             <log-action>1</log-action> <!-- operation="delete"-->
                             </config>
                             </ipv6>
                             </copp>
                             </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (hop-limit
<0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
    </acl-set>
  </acl-sets>
</acl>
```

```

        <type>mac</type>
    <acl-entries>
        <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
                <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
            </config>
        </ipv6>
    </copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
```

```

        <config>
            <sequence-id>1</sequence-id>
        </config>
    </copp>
    <ipv6>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
        <ipv6>
```

```

        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
          <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
          <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
          <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
          <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
          <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
          <hop-limit>0</hop-limit> <!-- operation="delete"-->
          <log-action>1</log-action> <!-- operation="delete"-->
        </config>
      </ipv6>
    </copp>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
16777215>|) |)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```



```

operation="delete"--> <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|) |)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (hop-limit <0-255>|)
(log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```

operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD range <0-65535> <0-
65535> (hop-limit <0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <copp>
        <ipv6>
        <config>
operation="delete"-->    <forwarding-action>deny</forwarding-action> <!--
                           </protocol-udp><!-- operation="delete"-->
                           <source-address>any</source-address> <!-- operation="delete"-->
                           <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->    <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->    <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->    <hop-limit>0</hop-limit> <!-- operation="delete"-->
                           <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (hop-limit
<0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-udp><!-- operation="delete"-->
                <source-address>any</source-address> <!-- operation="delete"-->
                <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
```



```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD (hop-limit <0-255>|) (log (<1-16777215>|))
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```

<acl-set>
  <name>NAME</name>
  <config>
    <name>WORD</name>
    <type>mac</type>
  </config>
  <type>mac</type>
<acl-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <copp>
      <ipv6>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
          <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
          <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
          <hop-limit>0</hop-limit> <!-- operation="delete"-->
          <log-action>1</log-action> <!-- operation="delete"-->
        </config>
      </ipv6>
    </copp>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
```

```

    </config>
    <type>mac</type>
  <acl-entries>
    <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <copp>
        <ipv6>
          <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
            <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
            <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
          </config>
        </ipv6>
      </copp>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature, Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
```

```

        </config>
        <copp>
        <ipv6>
        <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-udp><!-- operation="delete"-->
        <source-address>any</source-address> <!-- operation="delete"-->
        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
```

```

operation="delete"--> <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"--> <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
WORD (eq)
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure protocol icmpv6

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-icmpv6><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) (hop-limit <0-255>|) (log (<1-
16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                </protocol-icmpv6><!-- operation="delete"-->
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 prefix-group WORD (any) (hop-limit <0-255>|)
(log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <sequence-id>1</sequence-id>
    </config>
    <copp>
    <ipv6>
    <config>
        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
        </protocol-icmpv6><!-- operation="delete"-->
        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
    </ipv6>
    </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 prefix-group WORD prefix-group WORD (hop-
limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <copp>
          <ipv6>
            <config>
              <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
              </protocol-icmpv6><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
              <hop-limit>0</hop-limit> <!-- operation="delete"-->
              <log-action>1</log-action> <!-- operation="delete"-->
            </config>
          </ipv6>
        </copp>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 (any) prefix-group WORD (hop-limit <0-255>|)
(log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                <source-address>any</source-address> <!-- operation="delete"-->
                <destination-address>any</destination-address> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
```

```

</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any|<0-255>) (any) (any)
(hop-limit <0-255>|) (log (<1-16777215>|)|)

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```

<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
    <acl-entries>
      <acl-entry>
        <sequence-id>1</sequence-id>

```

```

        <config>
            <sequence-id>1</sequence-id>
        </config>
    </copp>
    <ipv6>
        <config>
            <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
            <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
            <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!--
operation="delete"-->
            <hop-limit>0</hop-limit> <!-- operation="delete"-->
            <log-action>1</log-action> <!-- operation="delete"-->
        </config>
    </ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) prefix-group WORD
(any) (hop-limit <0-255>|) (log (<1-16777215>|))

```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
        <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                <hop-limit>0</hop-limit> <!-- operation="delete"-->
                <log-action>1</log-action> <!-- operation="delete"-->
              </config>
            </ipv6>
          </copp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) prefix-group WORD
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|))|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
    <acl-set>
      <name>NAME</name>
      <config>
        <name>WORD</name>
        <type>mac</type>
      </config>
      <type>mac</type>
      <acl-entries>
        <acl-entry>
          <sequence-id>1</sequence-id>
          <config>
            <sequence-id>1</sequence-id>
          </config>
          <copp>
            <ipv6>
              <config>
                <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
```

```

        <source-address>any</source-address> <!-- operation="delete"-->
        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
        <hop-limit>0</hop-limit> <!-- operation="delete"-->
        <log-action>1</log-action> <!-- operation="delete"-->
    </config>
</ipv6>
</copp>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) (any) prefix-group
WORD (hop-limit <0-255>|) (log (<1-16777215>|))

```

IPI-DHCP-SNOOPING

Configure options

Use this attribute to debug the DHCP snooping feature.

Attribute Name: options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <debug>
      <config>
        <options>event</options> <!-- operation="delete"-->
      </config>
    </debug>
  </snooping>
</dhcp>

```

Command Syntax

```

debug ip dhcp snooping (event|rx|tx|packet|all)

```

Configure snooping enable

Enable DHCP snooping feature

Attribute Name: snooping-enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping bridge <1-32>
```

Configure verify mac address

Use this command to enable MAC address verification.

Attribute Name: verify-mac-address

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
          </verify-mac-address><!-- operation="delete"-->
        </config>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping verify mac-address bridge <1-32>
```

Configure option 82 enable

Use this command to insert interface and VLAN name in the option 82 field in DHCP packets.

Attribute Name: option-82-enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
      </option-82-enable><!-- operation="delete"-->
    </snooping-bridge>
  </snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping information option bridge <1-32>
```

Configure write delay

Configure DHCP snooping database write delay in multiples of 10 seconds

Attribute Name: write-delay

Attribute Type: uint32

Default Value: 300

Attribute Range: 20-86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
          <write-delay>20</write-delay> <!-- operation="delete"-->
        </config>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping database write-delay <20-86400> bridge <1-32>
```

Configure strict validation

Use this command to enable strict validation of DHCP packets.

Attribute Name: strict-validation

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
        </strict-validation><!-- operation="delete"-->
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp packet strict-validation bridge <1-32>
```

Configure enable

Use this command to enable/disable arp-inspection on the bridge.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
          <arp-inspection>
            <config>
              </enable>
            </config>
          </arp-inspection>
        </snooping-bridge>
      </snooping-bridges>
    </snooping>
  </dhcp>
```

Command Syntax

```
ip dhcp snooping arp-inspection bridge <1-32>
```

Configure validate mac

Use this command to enable validation of the source-mac, destination-mac, or IP address field in the ARP packet payload.

Attribute Name: validate-mac

Attribute Type: enum (src-mac|dst-mac|ip)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
        <arp-inspection>
          <config>
            <validate-mac>src-mac</validate-mac> <!-- operation="delete"-->
          </config>
        </arp-inspection>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping arp-inspection validate (src-mac|dst-mac|ip) bridge <1-32>
```

Configure vlan range

Use this command to enable ARP inspection on the VLAN in a bridge.

Attribute Name: vlan-range

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
        <arp-inspection>
          <config>
            <vlan-range>VLAN_RANGE</vlan-range> <!-- operation="delete"-->
          </config>
        </arp-inspection>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

```

    </config>
  </arp-inspection>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>

```

Command Syntax

```
ip dhcp snooping arp-inspection vlan VLAN_RANGE bridge <1-32>
```

Configure option82 template name

option82 template name to map to vlan.

Attribute Name: option82-template-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
      <vlan-option82-template-mappings>
        <vlan-option82-template-mapping>
          <vlan-range>VLAN_RANGE</vlan-range>
          <config>
            <vlan-range>VLAN_RANGE</vlan-range>
          </config>
          <option82-template-name>TEMPLATE_NAME</option82-template-name> <!--
operation="delete"-->
        </vlan-option82-template-mapping>
      </vlan-option82-template-mappings>
    </snooping-bridge>
  </snooping-bridges>
</snooping>
</dhcp>

```

Command Syntax

```
ip dhcp snooping vlan VLAN_RANGE bridge <1-32> option82-template TEMPLATE_NAME
```

Configure bridge id

vlan-range on which DHCP snooping needs to be enabled..

Attribute Name: vlan-range

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
        <vlan-option82-template-mappings>
          <vlan-option82-template-mapping>
            <vlan-range>VLAN_RANGE</vlan-range>
            <config>
              <vlan-range>VLAN_RANGE</vlan-range>
            </config>
          </vlan-option82-template-mapping>
        </vlan-option82-template-mappings>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping vlan VLAN_RANGE bridge <1-32>
```

Configure if name

Use this attribute to set the interface name

Attribute Name: if-name

Attribute Type: string

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
        <vlans>
          <vlan>
            <vlan-id>1</vlan-id>
```

```

    <config>
      <vlan-id>1</vlan-id>
    </config>
  <mac-addresses-ipv4>
    <mac-address-ipv4>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <config>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
        <ipv4-address>A.B.C.D</ipv4-address>
      </config>
      <if-name>IFNAME</if-name>
    </mac-address-ipv4>
  </mac-addresses-ipv4>
</vlan>
</vlans>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>

```

Command Syntax

```
ip dhcp snooping binding bridge <1-32> XXXX.XXXX.XXXX <1-4094> ipv4 A.B.C.D IFNAME
```

Configure mac address

Use this attribute to set the interface name

This command is supported when following feature are enabled HAVE_IPV6 feature enabled

Attribute Name: if-name

Attribute Type: string

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <snooping-bridges>
      <snooping-bridge>
        <bridge-id>1</bridge-id>
        <config>
          <bridge-id>1</bridge-id>
        </config>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
  <vlans>
    <vlan>
      <vlan-id>1</vlan-id>
      <config>
        <vlan-id>1</vlan-id>
      </config>
      <mac-addresses-ipv6>

```

```

    <mac-address-ipv6>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    <config>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <ipv6-address>X:X::X:X</ipv6-address>
    </config>
    <if-name>IFNAME</if-name>
  </mac-address-ipv6>
</mac-addresses-ipv6>
</vlan>
</vlans>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>

```

Command Syntax

```
ip dhcp snooping binding bridge <1-32> XXXX.XXXX.XXXX <1-4094> ipv6 X:X::X:X IFNAME
```

ip dhcp snooping database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```

<ipi-dhcp-snooping_dhcp-snooping-write-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <bridge-id>WORD</bridge-id>
</ipi-dhcp-snooping_dhcp-snooping-write-database>

```

Command Syntax

```
ip dhcp snooping database bridge WORD
```

renew ip dhcp snooping binding database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```

<ipi-dhcp-snooping_dhcp-snooping-renew-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <bridge-id>WORD</bridge-id>
</ipi-dhcp-snooping_dhcp-snooping-renew-database>

```

Command Syntax

```
renew ip dhcp snooping binding database bridge WORD
```

ip dhcp snooping source database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-write-source-binding-database xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <bridge-id>WORD</bridge-id>  
</ipi-dhcp-snooping_dhcp-snooping-write-source-binding-database>
```

Command Syntax

```
ip dhcp snooping source database bridge WORD
```

renew ip dhcp snooping source binding database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-renew-source-database xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <bridge-id>WORD</bridge-id>  
</ipi-dhcp-snooping_dhcp-snooping-renew-source-database>
```

Command Syntax

```
renew ip dhcp snooping source binding database bridge WORD
```

clear ip dhcp snooping source binding bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-clear-source-binding-database xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <bridge-id>WORD</bridge-id>  
</ipi-dhcp-snooping_dhcp-snooping-clear-source-binding-database>
```

Command Syntax

```
clear ip dhcp snooping source binding bridge WORD
```

clear ip dhcp snooping binding bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-clear-database xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <bridge-id>WORD</bridge-id>  
</ipi-dhcp-snooping_dhcp-snooping-clear-database>
```

Command Syntax

```
clear ip dhcp snooping binding bridge WORD
```

debug ip dhcp snooping (event|rx|tx|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-terminal-debug-on xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <terminal-debug-options>event</terminal-debug-options>  
</ipi-dhcp-snooping_dhcp-snooping-terminal-debug-on>
```

Command Syntax

```
debug ip dhcp snooping (event|rx|tx|packet|all)
```

no debug ip dhcp snooping (event|rx|tx|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf RPC payload

```
<ipi-dhcp-snooping_dhcp-snooping-terminal-debug-off xmlns="http://  
www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
  <terminal-debug-options>event</terminal-debug-options>  
</ipi-dhcp-snooping_dhcp-snooping-terminal-debug-off>
```

Command Syntax

```
no debug ip dhcp snooping (event|rx|tx|packet|all)
```

IPI-DHCP-SNOOPING-INTERFACE

Configure snooping trust

Use this command to enable the snooping trust on the interface level.

Attribute Name: snooping-trust

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <trust>
          <config>
            </snooping-trust><!-- operation="delete"-->
          </config>
        </trust>
      </interface>
    </interfaces>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping trust
```

Configure verify snooping vlan

Use this command to enable the IPSG feature at the interface level.

Attribute Name: verify-snooping-vlan

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <verify>
          <config>
            </verify-snooping-vlan>
          </config>
        </verify>
      </interface>
    </interfaces>
  </snooping>
</dhcp>
```

Command Syntax

```
ip verify source dhcp-snooping-vlan
```

Configure verify access group mode

Use this command to enable the snooping access-group on the interface level.

Attribute Name: verify-access-group-mode

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <snooping>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <verify>
          <config>
            </verify-access-group-mode><!-- operation="delete"-->
          </config>
        </verify>
      </interface>
    </interfaces>
  </snooping>
</dhcp>
```

Command Syntax

```
ip verify source access-group mode merge
```

clear hsl ipc-stat VALUE VALUE

Attribute Name: start-value

Attribute Type: uint16

Attribute Name: end-value

Attribute Type: uint16

Netconf RPC payload

```
<platform-clear-hsl-ipc-stat-values xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ras">
  <start-value>VALUE</start-value>
  <end-value>VALUE</end-value>
</platform-clear-hsl-ipc-stat-values>
```

Command Syntax

```
clear hsl ipc-stat VALUE VALUE
```

clear hsl ipc-stat

Netconf RPC payload

```
<platform-clear-hsl-ipc-stat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl ipc-stat
```

clear hsl mlag mac-sync-count

Netconf RPC payload

```
<platform-clear-hsl-mlag-mac-sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl mlag mac-sync-count
```

clear hardware-discard-counters

Netconf RPC payload

```
<platform-clear-hardware-discard-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hardware-discard-counters
```

clear hsl fdb debug-counters

Netconf RPC payload

```
<platform-clear-hsl-fdb-debug-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl fdb debug-counters
```

clear hsl system-cpu-stats

Netconf RPC payload

```
<platform-clear-hsl-system-cpu-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl system-cpu-stats
```

IPI-UNICAST-RPF

Configure enable route lookup

Use this attribute to enable uRPF globally on the system

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: enable-route-lookup

Attribute Type: empty

Netconf edit-config payload

```
<unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
  <global>
    <config>
      </enable-route-lookup><!-- operation="delete"-->
    </config>
  </global>
</unicast-rpf>
```

Command Syntax

```
ip urpf enable
```

Configure enable default route check

Use this attribute to enable default route to match when checking source IP address

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: enable-default-route-check

Attribute Type: empty

Netconf edit-config payload

```
<unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
  <global>
    <config>
      </enable-default-route-check><!-- operation="delete"-->
    </config>
  </global>
</unicast-rpf>
```

Command Syntax

```
ip urpf allow-default
```

Configure source reachability mode

Use this attribute to enable uRPF for an interface with specified reachability mode

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: source-reachability-mode

Attribute Type: enum (any|rx)

Netconf edit-config payload

```
<unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <source-reachability-mode>any</source-reachability-mode> <!--
operation="delete"-->
    </interface>
  </interfaces>
</unicast-rpf>
```

Command Syntax

```
ip verify unicast source reachable-via (any|rx)
```

IPI-OSPF-INTERFACE-TRACKING

Configure event name

Attribute used to specify the event-name for OSPF interface tracking.

Attribute Name: event-name

Attribute Type: string

Attribute Name: event-match-criteria

Attribute Type: enum (all|any)

Netconf edit-config payload

```
<ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
  <ospf-interface-events-tracking> <!-- operation="delete"-->
    <event-name>NAME</event-name>
    <config>
      <event-name>NAME</event-name>
      <event-match-criteria>all</event-match-criteria>
    </config>
  </ospf-interface-events-tracking>
</ospf-interfaces-events-tracking>
```

Command Syntax

```
if-event-track ospf event NAME match (all|any)
```

Configure event neighbor ip address

Attribute used to specify the event neighbor IP address for OSPF interface tracking event.

Attribute Name: event-neighbor-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
  <ospf-interface-events-tracking>
    <event-name>NAME</event-name>
    <config>
      <event-name>NAME</event-name>
    </config>
    <event-neighbor-ip-address>A.B.C.D</event-neighbor-ip-address> <!--
operation="delete"-->
  </ospf-interface-events-tracking>
</ospf-interfaces-events-tracking>
```

Command Syntax

```
event nbr A.B.C.D down
```

Configure name

Attribute used to specify the interface name for OSPF interface tracking event action.

Attribute Name: name

Attribute Type: string

Attribute Name: cost

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
  <ospf-interface-events-tracking>
    <event-name>NAME</event-name>
    <config>
      <event-name>NAME</event-name>
    </config>
  <actions>
    <interfaces>
      <interface> <!-- operation="delete"-->
        <name>IFNAME</name>
        <config>
          <name>IFNAME</name>
          <cost>1</cost>
        </config>
      </interface>
```

```
</interfaces>
</actions>
</ospf-interface-events-tracking>
</ospf-interfaces-events-tracking>
```

Command Syntax

```
action interface IFNAME cost <1-65535>
```

IPI-PORT-MIRROR

Configure description

Use this attribute to add a description to port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </session>
  </sessions>
</port-mirror>
```

Command Syntax

```
description LINE
```

Configure interface name

Use this attribute to configure port mirror local interface

This command is supported when following feature are enabled advance mirror feature

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
```

```

    <id>1</id>
    <config>
      <id>1</id>
    </config>
  <destination>
    <local>
      <config>
        <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
      </config>
    </local>
  </destination>
</session>
</sessions>
</port-mirror>

```

Command Syntax

```
destination interface IFNAME
```

Configure reflector interface name

Use this attribute to configure port mirror remote reflector interface

This command is supported when following feature are enabled advance mirror feature

Attribute Name: reflector-interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```

<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
    <destination>
      <remote>
        <config>
          <vlan-id>2</vlan-id>
          <reflector-interface-name>IFNAME</reflector-interface-name>
        </config>
      </remote>
    </destination>
  </session>
</sessions>
</port-mirror>

```

Command Syntax

```
destination remote vlan <2-4094> reflector-port IFNAME
```

Configure name

Configure ERSPAN destination name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
    <destination>
      <erspan>
        <config>
          <name>WORD</name> <!-- operation="delete"-->
        </config>
      </erspan>
    </destination>
  </session>
</sessions>
</port-mirror>
```

Command Syntax

```
destination erspan WORD
```

Configure direction

Source interface direction

This command is supported when following feature are enabled advance mirror feature

Attribute Name: direction

Attribute Type: bits (rx|tx|both)

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
    </session>
  </sessions>
</port-mirror>
```

```

<source-interfaces>
<source-interface>
  <name>IFNAME</name>
  <config>
    <name>IFNAME</name>
  </config>
  <direction>rx</direction>
</source-interface>
</source-interfaces>
</session>
</sessions>
</port-mirror>

```

Command Syntax

```
source interface IFNAME ((rx|tx|both)|)
```

Configure source vlan

Use this attribute to add VLAN monitor source

This command is supported when following feature are enabled advance mirror feature

Attribute Name: source-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```

<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
  <id>1</id>
  <config>
    <id>1</id>
  </config>
<source-vlans>
<config>
  <source-vlan>VLAN_RANGE</source-vlan> <!-- operation="delete"-->
</config>
</source-vlans>
</session>
</sessions>
</port-mirror>

```

Command Syntax

```
source vlan VLAN_RANGE
```

Configure enabled

Use this attribute to shut/unshut a port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
    <session-enabled>
      <config>
        </enabled><!-- operation="delete"-->
      </config>
    </session-enabled>
  </session>
</sessions>
</port-mirror>
```

Command Syntax

```
no shut
```

Configure id

Use this attribute to shut/unshut a port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <sessions>
    <session>
      <id>1</id>
      <config>
        <id>1</id>
      </config>
    <session-enabled>
      <config>
        </enabled><!-- operation="delete"-->
      </config>
    </session-enabled>
  </session>
</sessions>
</port-mirror>
```

Command Syntax

```
no monitor session <1-18> shut
```

Configure erspan-destinations name

Sets the ERSPAN destination name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination> <!-- operation="delete"-->
      <name>NAME</name>
    <config>
      <name>WORD</name>
    </config>
  </erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
monitor destination erspan NAME
```

Configure dest ip

Set the destination IP of the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: dest-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
    <config>
      <name>WORD</name>
    </config>
    <dest-ip>A.B.C.D/X:X::X:X</dest-ip> <!-- operation="delete"-->
  </erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
dest-ip A.B.C.D/X:X::X:X
```

Configure vrf name

Use this attribute to set the connection VRF name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
vrf WORD
```

Configure erspan id

ERSPAN session id

This command is supported when following feature are enabled advance mirror feature

Attribute Name: erspan-id

Attribute Type: uint32

Attribute Range: 1-1023

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <erspan-id>1</erspan-id> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
erspan-id <1-1023>
```

Configure origin ip

Set the origin IP of the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: origin-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <origin-ip>A.B.C.D/X:X::X:X</origin-ip> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
origin-ip A.B.C.D/X:X::X:X
```

Configure ttl

This attribute is used to set time to live

This command is supported when following feature are enabled advance mirror feature

Attribute Name: ttl

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <ttl>1</ttl> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
ttl <1-255>
```

Configure dscp

Use this attribute to set the DSCP value used for the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: dscp

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <dscp>0</dscp> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
dscp <0-63>
```

Configure enable truncate

Enable/Disable packet truncate on the ERSPAN sender session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enable-truncate

Attribute Type: boolean

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <enable-truncate>true</enable-truncate> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
enable-truncate
```

Configure erspan type

Use this attribute to set the ERSPAN type

This command is supported when following feature are enabled advance mirror feature

Attribute Name: erspan-type

Attribute Type: enum (1|3)

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <erspan-type>1</erspan-type> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
erspan-type (1|3)
```

Configure hardware id

Unique identifier of an ERSPAN engine within a system.

This command is supported when following feature are enabled advance mirror feature

Attribute Name: hardware-id

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <hardware-id>0</hardware-id> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
hardware-id <0-63>
```

Configure switch id

Use this attribute to set the switch ID (platform specific info)

This command is supported when following feature are enabled advance mirror feature

Attribute Name: switch-id

Attribute Type: uint16

Attribute Range: 0-511

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
  <erspan-destinations>
    <erspan-destination>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <switch-id>0</switch-id> <!-- operation="delete"-->
    </erspan-destination>
  </erspan-destinations>
</port-mirror>
```

Command Syntax

```
switch-id <0-511>
```

IPI-RIPNG

Configure options

This attribute enables debugging for RIPng

Attribute Name: options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <debug>
    <config>
      <options>all</options> <!-- operation="delete"-->
    </config>
  </debug>
</ripng>
```

Command Syntax

```
debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|)
```

Configure split horizon

Use this attribute to perform the split-horizon action on the interface. Deleting this attribute would set the split-horizon to poisoned reverse which is the default value.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <split-horizon>true</split-horizon> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ripng>
```

Command Syntax

```
ipv6 rip split-horizon
```

Configure name

Use this attribute to perform the split-horizon action on the interface. Deleting this attribute would set the split-horizon to poisoned reverse which is the default value.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <split-horizon>true</split-horizon> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ripng>
```

Command Syntax

```
no ipv6 rip split-horizon
```

Configure enabled

Use this attribute to perform the router rip action on the interface

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enabled><!-- operation="delete"-->
    </interface>
  </interfaces>
</ripng>
```

Command Syntax

```
ipv6 router rip
```

Configure metric offset

Use this attribute to perform the metric-offset action on the interface

Attribute Name: metric-offset

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <metric-offset>1</metric-offset> <!-- operation="delete"-->
    </interface>
  </interfaces>
</ripng>
```

Command Syntax

```
ipv6 rip metric-offset <1-16>
```

Configure ripng enabled

Use this attribute to enable the router instance

Attribute Name: ripng-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      </ripng-enabled>
    </config>
  </instance>
</ripng>
```

Command Syntax

```
router ipv6 rip
```

Configure enable cisco metric behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
cisco-metric-behavior enable
```

Configure instance enable-cisco-metric-behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
```

```

    <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
</config>
</instance>
</ripng>

```

Command Syntax

```
cisco-metric-behavior disable
```

Configure passive interfaces

Use this attribute to block RIP broadcast on the interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>

```

Command Syntax

```
passive-interface IFNAME
```

Configure distance

Use this attribute to set the administrative distance. The administrative distance is a feature used by the routers to select the path when there are two or more different routes to the same destination from two different routing protocols. A smaller administrative distance indicating a more reliable protocol

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <distance>1</distance> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>

```

Command Syntax

```
distance <1-255>
```

Configure static routes

Use this attribute to configure static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <static-routes>X:X::X:X/M</static-routes> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
route X:X::X:X/M
```

Configure aggregate prefixes

Use this attribute to configure aggregate prefixes

Attribute Name: aggregate-prefixes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <aggregate-prefixes>X:X::X:X/M</aggregate-prefixes> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
aggregate-address X:X::X:X/M
```

Configure default metric

Use this attribute to specify the metrics to be assigned to redistributed routers

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <default-metric>1</default-metric> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
default-metric <1-15>
```

Configure originate default route

Use this attribute to add default routes to the RIP updates

Attribute Name: originate-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      </originate-default-route><!-- operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
default-information originate
```

Configure receive buffer size

Use this attribute to run-time configure the RIP UDP receive-buffer size

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 8192

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <config>
      <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"-->
    </config>
  </instance>
</ripng>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure route type

Use this attribute to redistribute information from other routing protocols

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf6|isis|bgp)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <redistribute-policies>
      <redistribute-policy> <!-- operation="delete"-->
        <route-type>connected</route-type>
      <config>
        <route-type>connected</route-type>
      </config>
    </redistribute-policy>
  </redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp)
```

Configure route map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <redistribute-policies>
      <redistribute-policy>
        <route-type>connected</route-type>
      <config>
        <route-type>connected</route-type>
        <metric>0</metric>
      </config>
    <route-map>WORD</route-map>
  </instance>
</ripng>
```

```
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to redistribute metric information from other routing protocols

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <redistribute-policies>
      <redistribute-policy>
        <route-type>connected</route-type>
        <config>
          <route-type>connected</route-type>
        </config>
        <metric>0</metric>
      </redistribute-policy>
    </redistribute-policies>
  </instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <redistribute-policies>
      <redistribute-policy>
        <route-type>connected</route-type>
        <config>
          <route-type>connected</route-type>
        </config>
      </redistribute-policy>
    </redistribute-policies>
  </instance>
</ripng>
```

```

    </config>
    <route-map>WORD</route-map>
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>

```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) route-map WORD
```

Configure route table update interval

Use this attribute to adjust basic routing protocol update timer interval

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <timers>
      <config>
        <route-info-timeout-interval>5</route-info-timeout-interval>
        <garbage-collection-interval>5</garbage-collection-interval>
        <route-table-update-interval>5</route-table-update-interval>
      </config>
    </timers>
  </instance>
</ripng>

```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure address

Use this attribute to specify a link local address of neighbor router. It is used for each connected point-to-point link. This command exchanges non-broadcast routing information. It can be used multiple times for additional neighbors

Attribute Name: address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <neighbors>
      <neighbor> <!-- operation="delete"-->
        <address>X:X::X:X</address>
        <config>
          <address>X:X::X:X</address>
          <if-name>IFNAME</if-name>
        </config>
      </neighbor>
    </neighbors>
  </instance>
</ripng>
```

Command Syntax

```
neighbor X:X::X:X IFNAME
```

Configure type

Use this attribute to decide the type of packets to which the filtering is applied

Attribute Name: type

Attribute Type: enum (in|out)

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      </interface>
    </interfaces>
    <filtering-route-maps>
      <filtering-route-map>
        <type>in</type>
        <config>
          <type>in</type>
          <route-map-name>WORD</route-map-name>
        </config>
      </filtering-route-map>
    </filtering-route-maps>
  </instance>
</ripng>
```



```

</filtering-route-maps>
</interface>
</interfaces>
</instance>
</ripng>

```

Command Syntax

```
route-map WORD (in|out) IFNAME
```

Configure access list name

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      <offset-lists>
        <offset-list>
          <direction>in</direction>
          <config>
            <direction>in</direction>
            <access-list-name>WORD</access-list-name>
          </config>
          <metric>0</metric>
        </offset-list>
      </offset-lists>
    </interface>
  </interfaces>
</instance>
</ripng>

```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      </interface>
    </interfaces>
    <distributed-lists>
      <distributed-list>
        <direction>in</direction>
        <config>
          <direction>in</direction>
          <access-list-name>WORD</access-list-name>
        </config>
      </distributed-list>
    </distributed-lists>
  </instance>
</ripng>
```

Command Syntax

```
distributed-list WORD (in|out) IFNAME
```

Configure list name

Use this attribute to decide the type of packets to which the distributed list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <interfaces>
      <interface>
        <name>IFNAME</name>
        <config>
          <name>WORD</name>
        </config>
      </interface>
    </interfaces>
  </instance>
</ripng>
```

```

    </config>
  <distributed-prefix-lists>
  <distributed-prefix-list>
    <direction>in</direction>
    <config>
      <direction>in</direction>
      <list-name>WORD</list-name>
    </config>
  </distributed-prefix-list>
</distributed-prefix-lists>
</interface>
</interfaces>
</instance>
</ripng>

```

Command Syntax

```
distributed-list prefix WORD (in|out) IFNAME
```

Configure offset-list metric

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <offset-lists>
    <offset-list>
      <direction>in</direction>
      <config>
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
      </config>
      <metric>0</metric>
    </offset-list>
  </offset-lists>
</instance>
</ripng>

```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-list direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <distribute-lists>
    <distribute-list>
      <direction>in</direction>
      <config>
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
      </config>
    </distribute-list>
  </distribute-lists>
</instance>
</ripng>
```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <distribute-prefix-lists>
    <distribute-prefix-list>
      <direction>in</direction>
      <config>
        <direction>in</direction>
        <list-name>WORD</list-name>
      </config>
    </distribute-prefix-list>
  </distribute-prefix-lists>
</instance>
</ripng>
```

```
</instance>
</ripng>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

debug ipv6 rip (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)

Netconf RPC payload

```
<ripng-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <terminal-debug-options>all</terminal-debug-options>
</ripng-terminal-debug-on>
```

Command Syntax

```
debug ipv6 rip (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)
```

no debug ipv6 rip (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)

Netconf RPC payload

```
<ripng-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <terminal-debug-options>all</terminal-debug-options>
</ripng-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 rip (all|events|packet send|packet rcv|packet|packet detail|nsm|rib)
```

clear ipv6 rip route (connected|static|isis|ospf6|bgp|rip|all)

Attribute Name: type

Attribute Type: enum (connected|static|isis|ospf6|bgp|rip|all)

Netconf RPC payload

```
<ripng-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <type>connected</type>
</ripng-clear-route>
```

Command Syntax

```
clear ipv6 rip route (connected|static|isis|ospf6|bgp|rip|all)
```

clear ipv6 rip route X:X::X:X/M

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<ripng-clear-route-prefix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <prefix>X:X::X:X/M</prefix>
</ripng-clear-route-prefix>
```

Command Syntax

```
clear ipv6 rip route X:X::X:X/M
```

IPI-RIPNG-VRF

Configure vrf name

VRF Name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf> <!-- operation="delete"-->
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
address-family ipv6 vrf NAME
```

Configure enable cisco metric behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
cisco-metric-behavior enable
```

Configure vrf enable-cisco-metric-behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
cisco-metric-behavior disable
```

Configure passive interfaces

Use this attribute to block RIP broadcast on the interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
passive-interface IFNAME
```

Configure distance

Use this attribute to set the administrative distance. The administrative distance is a feature used by the routers to select the path when there are two or more different routes to the same destination from two different routing protocols. A smaller administrative distance indicating a more reliable protocol

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <distance>1</distance> <!-- operation="delete"-->
        </config>
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
distance <1-255>
```

Configure static routes

Use this attribute to configure static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <static-routes>X:X::X:X/M</static-routes> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
route X:X::X:X/M
```

Configure aggregate prefixes

Use this attribute to configure aggregate prefixes

Attribute Name: aggregate-prefixes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <aggregate-prefixes>X:X::X:X/M</aggregate-prefixes> <!--
operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
aggregate-address X:X::X:X/M
```

Configure default metric

Use this attribute to specify the metrics to be assigned to redistributed routers

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <default-metric>1</default-metric> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
default-metric <1-15>
```

Configure originate default route

Use this attribute to add default routes to the RIP updates

Attribute Name: originate-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        </originate-default-route><!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
default-information originate
```

Configure receive buffer size

Use this attribute to run-time configure the RIP UDP receive-buffer size

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 8192

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"-->
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure route type

Use this attribute to redistribute information from other routing protocols

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf6|bgp)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy> <!-- operation="delete"-->

```

```

        <route-type>connected</route-type>
        <config>
            <route-type>connected</route-type>
        </config>
    </redistribute-policy>
</redistribute-policies>
</vrf>
</vrfs>
</instance>
</ripng>

```

Command Syntax

```
redistribute (connected|static|ospf6|bgp)
```

Configure route map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy>
            <route-type>connected</route-type>
            <config>
              <route-type>connected</route-type>
              <metric>0</metric>
            </config>
            <route-map>WORD</route-map>
          </redistribute-policy>
        </redistribute-policies>
      </vrf>
    </vrfs>
  </instance>
</ripng>

```

Command Syntax

```
redistribute (connected|static|ospf6|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to redistribute metric information from other routing protocols

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
          <redistribute-policy>
            <route-type>connected</route-type>
            <config>
              <route-type>connected</route-type>
            </config>
            <metric>0</metric>
          </redistribute-policy>
        </redistribute-policies>
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
```

```

    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
    </config>
    <redistribute-policies>
    <redistribute-policy>
      <route-type>connected</route-type>
      <config>
        <route-type>connected</route-type>
      </config>
      <route-map>WORD</route-map>
    </redistribute-policy>
  </redistribute-policies>
</vrf>
</vrfs>
</instance>
</ripng>

```

Command Syntax

```
redistribute (connected|static|ospf6|bgp) route-map WORD
```

Configure route table update interval

Use this attribute to adjust basic routing protocol update timer interval

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <timers>
          <config>
            <route-info-timeout-interval>5</route-info-timeout-interval>

```

```

        <garbage-collection-interval>5</garbage-collection-interval>
        <route-table-update-interval>5</route-table-update-interval>
    </config>
</timers>
</vrf>
</vrfs>
</instance>
</ripng>

```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure address

Use this attribute to specify a link local address of neighbor router. It is used for each connected point-to-point link. This command exchanges non-broadcast routing information. It can be used multiple times for additional neighbors

Attribute Name: address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <neighbors>
          <neighbor> <!-- operation="delete"-->
            <address>X:X::X:X</address>
            <config>
              <address>X:X::X:X</address>
              <if-name>IFNAME</if-name>
            </config>
          </neighbor>
        </neighbors>
      </vrf>
    </vrfs>
  </instance>
</ripng>

```

Command Syntax

```
neighbor X:X::X:X IFNAME
```

Configure type

Use this attribute to decide the type of packets to which the filtering is applied

Attribute Name: type

Attribute Type: enum (in|out)

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>WORD</name>
            </config>
            <filtering-route-maps>
              <filtering-route-map>
                <type>in</type>
                <config>
                  <type>in</type>
                  <route-map-name>WORD</route-map-name>
                </config>
              </filtering-route-map>
            </filtering-route-maps>
          </interface>
        </interfaces>
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
route-map WORD (in|out) IFNAME
```

Configure access list name

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
          <interface>
            <name>IFNAME</name>
            <config>
              <name>WORD</name>
            </config>
            <offset-lists>
              <offset-list>
                <direction>in</direction>
                <config>
                  <direction>in</direction>
                  <access-list-name>WORD</access-list-name>
                </config>
                <metric>0</metric>
              </offset-list>
            </offset-lists>
          </interface>
        </interfaces>
      </vrf>
    </vrfs>
  </instance>
</ripng>

```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
        <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
        <interface>
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
          <distribute-lists>
            <distribute-list>
              <direction>in</direction>
              <config>
                <direction>in</direction>
                <access-list-name>WORD</access-list-name>
              </config>
            </distribute-list>
          </distribute-lists>
        </interface>
      </interfaces>
    </vrf>
  </vrfs>
</instance>
</ripng>
```

Command Syntax

```
distribute-list WORD (in|out) IFNAME
```

Configure list name

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
  <vrfs>
    <vrf>
      <vrf-name>NAME</vrf-name>
```

```

<config>
  <vrf-name>WORD</vrf-name>
</config>
<interfaces>
<interface>
  <name>IFNAME</name>
  <config>
    <name>WORD</name>
  </config>
  <distributed-prefix-lists>
  <distributed-prefix-list>
    <direction>in</direction>
    <config>
      <direction>in</direction>
      <list-name>WORD</list-name>
    </config>
  </distributed-prefix-list>
</distributed-prefix-lists>
</interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</ripng>

```

Command Syntax

```
distributed-list prefix WORD (in|out) IFNAME
```

Configure offset-list metric

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
  <vrfs>
  <vrf>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>WORD</vrf-name>
    </config>
    <offset-lists>
    <offset-list>

```

```

        <direction>in</direction>
    </config>
    <direction>in</direction>
    <access-list-name>WORD</access-list-name>
</config>
    <metric>0</metric>
</offset-list>
</offset-lists>
</vrf>
</vrfs>
</instance>
</ripng>

```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-list direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```

<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distribute-lists>
          <distribute-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
              <access-list-name>WORD</access-list-name>
            </config>
          </distribute-list>
        </distribute-lists>
      </vrf>
    </vrfs>
  </instance>
</ripng>

```

Command Syntax

```
distributed-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
    <vrfs>
      <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
        </config>
        <distribute-prefix-lists>
          <distribute-prefix-list>
            <direction>in</direction>
            <config>
              <direction>in</direction>
              <list-name>WORD</list-name>
            </config>
          </distribute-prefix-list>
        </distribute-prefix-lists>
      </vrf>
    </vrfs>
  </instance>
</ripng>
```

Command Syntax

```
distributed-list prefix WORD (in|out)
```

IPI-ARP

Configure ip address

Use this attribute to create a static ARP entry

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <entries>
    <entry> <!-- operation="delete"-->
      <ip-address>A.B.C.D</ip-address>
      <config>
        <ip-address>A.B.C.D</ip-address>
        <vrf-name>NAME</vrf-name>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
      <vrf-name>NAME</vrf-name>
    </entry>
  </entries>
</arp>
```

Command Syntax

```
ip arp (vrf NAME|) A.B.C.D XXXX.XXXX.XXXX
```

Configure respond to arp request

Use this attribute to set the response to ARP requests for the IP address

Attribute Name: respond-to-arp-request

Attribute Type: empty

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <entries>
    <entry>
      <ip-address>A.B.C.D</ip-address>
      <config>
        <ip-address>A.B.C.D</ip-address>
        <vrf-name>NAME</vrf-name>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
      <vrf-name>NAME</vrf-name>
      <respond-to-arp-request>
    </respond-to-arp-request>
    </entry>
  </entries>
</arp>
```

Command Syntax

```
ip arp (vrf NAME|) A.B.C.D XXXX.XXXX.XXXX alias
```

Configure icmp redirect

Use this attribute to trap ICMP redirect packets to the CPU

This command is supported when following feature are enabled custom2 cli for DUNE board

Attribute Name: icmp-redirect

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <global>
    <config>
      </icmp-redirect><!-- operation="delete"-->
    </config>
  </global>
</arp>
```

Command Syntax

```
ip redirects
```

Configure enable

Enable/Disable arp event debug

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</arp>
```

Command Syntax

```
debug ip arp event
```

Configure enable proxy arp

Use this attribute to enable the proxy ARP feature

Attribute Name: enable-proxy-arp

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
```

```
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  </enable-proxy-arp><!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
ip proxy-arp
```

Configure enable local proxy arp

Use this attribute to enable the local proxy ARP feature

Attribute Name: enable-local-proxy-arp

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </enable-local-proxy-arp><!-- operation="delete"-->
    </interface>
  </interfaces>
</arp>
```

Command Syntax

```
ip local-proxy-arp
```

Configure enable ip redirects

Use this attribute to enable ICMP redirects in kernel

Attribute Name: enable-ip-redirects

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
</arp>
```



```

    </config>
  </enable-ip-redirects><!-- operation="delete"-->
</interface>
</interfaces>
</arp>

```

Command Syntax

```
ip redirects
```

Configure arp ageing timeout

Use this attribute to set the ARP aging timeout. The bridge aging time affects the ARP entries which are dependent upon the MAC addresses in hardware. If a MAC address ages out, it causes the corresponding ARP entry to refresh.

Attribute Name: arp-ageing-timeout

Attribute Type: uint16

Default Value: 1500

Attribute Range: 60-36000

Netconf edit-config payload

```

<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <arp-ageing-timeout>60</arp-ageing-timeout> <!-- operation="delete"-->
    </interface>
  </interfaces>
</arp>

```

Command Syntax

```
arp-ageing-timeout <60-36000>
```

Configure arp reachable time

Use this attribute to set the ARP reachable time.

Attribute Name: arp-reachable-time

Attribute Type: uint16

Default Value: 60

Attribute Range: 10-36000

Netconf edit-config payload

```

<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>

```

```
<name>WORD</name>
<config>
  <name>WORD</name>
</config>
<arp-reachable-time>10</arp-reachable-time> <!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
arp-reachable-time <10-36000>
```

debug ip arp event

Netconf RPC payload

```
<arp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp"/>
```

Command Syntax

```
debug ip arp event
```

no debug ip arp event

Netconf RPC payload

```
<arp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp"/>
```

Command Syntax

```
no debug ip arp event
```

clear arp (A.B.C.D|) (vrf (all|VRFNAME|default)|)

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-arp-entry xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <ip-address>A.B.C.D</ip-address>
  <vrf-name>all</vrf-name>
</clear-arp-entry>
```

Command Syntax

```
clear arp (A.B.C.D|) (vrf (all|VRFNAME|default)|)
```

clear arp IFNAME (vrf (all|VRFNAME|default)|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-arp-entry-per-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
arp">
  <if-name>IFNAME</if-name>
  <vrf-name>all</vrf-name>
</clear-arp-entry-per-interface>
```

Command Syntax

```
clear arp IFNAME (vrf (all|VRFNAME|default)|)
```

IPI-NEIGHBOR-DISCOVERY

Configure interface name

Use this attribute to add a static neighbor entry of the interface name

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <entries>
    <entry> <!-- operation="delete"-->
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>IFNAME</interface-name>
        <ipv6-address>X:X::X:X</ipv6-address>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
      <ipv6-address>X:X::X:X</ipv6-address>
    </entry>
  </entries>
</neighbor-discovery>
```

Command Syntax

```
ipv6 neighbor X:X::X:X IFNAME XXXX.XXXX.XXXX
```

Configure enable

Use this attribute to enable debugging for neighbor events.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</neighbor-discovery>
```

Command Syntax

```
debug ipv6 nd event
```

Configure nd ageing timeout

Use this attribute to set the neighbor ageing timeout value.

Attribute Name: nd-ageing-timeout

Attribute Type: uint16

Default Value: 1500

Attribute Range: 60-36000

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <nd-ageing-timeout>60</nd-ageing-timeout> <!-- operation="delete"-->
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
nd-ageing-timeout <60-36000>
```

Configure nd reachable time

Use this attribute to set neighbor reachable time value.

Attribute Name: nd-reachable-time

Attribute Type: uint32

Default Value: 60

Attribute Range: 10-36000

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <nd-reachable-time>10</nd-reachable-time> <!-- operation="delete"-->
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
nd-reachable-time <10-36000>
```

Configure no ip unreachable

Use this attribute to set ip unreachable.

Attribute Name: no-ip-unreachable

Attribute Type: empty

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </no-ip-unreachable><!-- operation="delete"-->
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
no ip unreachable
```

Configure no ipv6 unreachable

Use this attribute to set ipv6 unreachable.

Attribute Name: no-ipv6-unreachable

Attribute Type: empty

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </no-ipv6-unreachable><!-- operation="delete"-->
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
no ipv6 unreachable
```

debug ipv6 nd event

Netconf RPC payload

```
<nd-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery"/>
```

Command Syntax

```
debug ipv6 nd event
```

no debug ipv6 nd event

Netconf RPC payload

```
<nd-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery"/>
```

Command Syntax

```
no debug ipv6 nd event
```

clear ipv6 neighbors (X:X::X:X/M|) (vrf (all|VRFNAME|default|))

Attribute Name: ipv6-address

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-nd-entry xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <ipv6-address>X:X::X:X/M</ipv6-address>
  <vrf-name>all</vrf-name>
</clear-ipv6-nd-entry>
```

Command Syntax

```
clear ipv6 neighbors (X:X::X:X/M|) (vrf (all|VRFNAME|default)|)
```

clear ipv6 neighbors IFNAME (vrf (all|VRFNAME|default)|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-nd-entry-per-interface xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-neighbor-discovery">
  <if-name>IFNAME</if-name>
  <vrf-name>all</vrf-name>
</clear-ipv6-nd-entry-per-interface>
```

Command Syntax

```
clear ipv6 neighbors IFNAME (vrf (all|VRFNAME|default)|)
```

IPI-USER-SESSION-MANAGEMENT

Configure console id

Attribute used to set line console identification.

Attribute Name: console-id

Attribute Type: enum (0)

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-console>
    <console> <!-- operation="delete"-->
      <console-id>0</console-id>
    <config>
      <console-id>0</console-id>
    </config>
  </console>
</line-console>
```

```
</user-session>
```

Command Syntax

```
line console <0-0>
```

Configure privilege level

Attribute used to set line privilege level.

Attribute Name: privilege-level

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-console>
    <console>
      <console-id>0</console-id>
      <config>
        <console-id>0</console-id>
      </config>
      <privilege-level>1</privilege-level> <!-- operation="delete"-->
    </console>
  </line-console>
</user-session>
```

Command Syntax

```
privilege level <1-16>
```

Configure command history max limit

Attribute used to set line maximum limit to history commands.

Attribute Name: command-history-max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-console>
    <console>
      <console-id>0</console-id>
      <config>
        <console-id>0</console-id>
      </config>
      <command-history-max-limit>0</command-history-max-limit> <!--
operation="delete"-->
    </console>
```



```
</line-console>  
</user-session>
```

Command Syntax

```
history max <0-2147483647>
```

Configure seconds

Attribute used to set line timeout in seconds. The default is 0.

Attribute Name: seconds

Attribute Type: uint32

Attribute Range: 0-2147483

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-  
management">  
  <line-console>  
    <console>  
      <console-id>0</console-id>  
      <config>  
        <console-id>0</console-id>  
      </config>  
    <timeout>  
      <config>  
        <minutes>0</minutes> <!-- operation="delete"-->  
        <seconds>0</seconds> <!-- operation="delete"-->  
      </config>  
    </timeout>  
  </console>  
</line-console>  
</user-session>
```

Command Syntax

```
exec-timeout <0-35791> <0-2147483>
```

Configure minutes

Attribute used to set line timeout in minutes. The default is 10 minutes.

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-console>
    <console>
      <console-id>0</console-id>
      <config>
        <console-id>0</console-id>
      </config>
    </console>
  </line-console>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791>
```

Configure vty id

Attribute used to set line privilege level.

Attribute Name: privilege-level

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-vty>
    <vtty>
      <vtty-id>0</vtty-id>
      <config>
        <vtty-id>0</vtty-id>
      </config>
      <privilege-level>1</privilege-level> <!-- operation="delete"-->
    </vtty>
  </line-vty>
</user-session>
```

Command Syntax

```
privilege level <1-16>
```

Configure vty command-history-max-limit

Attribute used to set line maximum limit to history commands.

Attribute Name: command-history-max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-vty>
    <vty>
      <vty-id>0</vty-id>
      <config>
        <vty-id>0</vty-id>
      </config>
      <command-history-max-limit>0</command-history-max-limit> <!--
operation="delete"-->
    </vty>
  </line-vty>
</user-session>
```

Command Syntax

```
history max <0-2147483647>
```

Configure timeout seconds

Attribute used to set line timeout in seconds. The default is 0.

Attribute Name: seconds

Attribute Type: uint32

Attribute Range: 0-2147483

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-vty>
    <vty>
      <vty-id>0</vty-id>
      <config>
        <vty-id>0</vty-id>
      </config>
      <timeout>
        <config>
          <minutes>0</minutes> <!-- operation="delete"-->
          <seconds>0</seconds> <!-- operation="delete"-->
        </config>
      </timeout>
    </vty>
  </line-vty>
</user-session>
```

```
</vty>
</line-vty>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791> <0-2147483>
```

Configure timeout minutes

Attribute used to set line timeout in minutes. The default is 10 minutes.

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-vty>
    <vty>
      <vty-id>0</vty-id>
      <config>
        <vty-id>0</vty-id>
      </config>
    <timeout>
      <config>
        <minutes>0</minutes>
      </config>
    </timeout>
  </vty>
</line-vty>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791>
```

clear line WORD

Attribute Name: line-name

Attribute Type: string

Attribute Range: 1-64

Netconf RPC payload

```
<clear-line xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <line-name>WORD</line-name>
</clear-line>
```

Command Syntax

```
clear line WORD
```

mem-info imi monitor-start

Attribute Name: mem-info-imi

Attribute Type: boolean

Netconf RPC payload

```
<mem-info-monitor-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-management">
  <mem-info-imi>true</mem-info-imi/>
</mem-info-monitor-start>
```

Command Syntax

```
mem-info imi monitor-start
```

mem-info imi monitor-stop

Attribute Name: mem-info-imi

Attribute Type: boolean

Netconf RPC payload

```
<mem-info-monitor-stop xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-management">
  <mem-info-imi>true</mem-info-imi/>
</mem-info-monitor-stop>
```

Command Syntax

```
mem-info imi monitor-stop
```

IPI-IPV6-ROUTER-ADV

Configure suppress ra

Use this attribute to suppress IPv6 Router Advertisements

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: suppress-ra

Attribute Type: uint8

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
```

```

    <config>
      <name>WORD</name>
    </config>
  </suppress-ra><!-- operation="delete"-->
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd suppress-ra
```

Configure suppress ra mtu

Use this attribute to disable sending MTU in Router Advertisement messages

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: suppress-ra-mtu

Attribute Type: uint8

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </suppress-ra-mtu><!-- operation="delete"-->
    </interface>
  </interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd suppress-ra mtu
```

Configure managed flag

Use this attribute to use DHCP for address config by host

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: managed-flag

Attribute Type: empty

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
  <interfaces>
    <interface>
      <name>WORD</name>

```

```

    <config>
      <name>WORD</name>
    </config>
  </managed-flag><!-- operation="delete"-->
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd managed-config-flag
```

Configure other config flag

Use this attribute to use DHCP for non-address config by host

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: other-config-flag

Attribute Type: empty

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </other-config-flag><!-- operation="delete"-->
    </interface>
  </interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd other-config-flag
```

Configure current hop limit

Use this attribute to set advertised current hop limit

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: current-hop-limit

Attribute Type: uint8

Default Value: 64

Attribute Range: 0-255

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">

```

```

<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <current-hop-limit>0</current-hop-limit> <!-- operation="delete"-->
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd current-hoplimit <0-255>
```

Configure link mtu

Use this attribute to set advertised link-mtu option

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: link-mtu

Attribute Type: uint32

Default Value: 1500

Attribute Range: 1280-65535

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
  <interface>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
    <link-mtu>1280</link-mtu> <!-- operation="delete"-->
  </interface>
  </interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd link-mtu <1280-65535>
```

Configure dad attempts

Use this attribute to set number of attempts for duplicate address detection

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: dad-attempts

Attribute Type: uint16

Default Value: 1

Attribute Range: 0-600

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <dad-attempts>0</dad-attempts> <!-- operation="delete"-->
    </interface>
  </interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd dad attempts <0-600>
```

Configure off link

The IPV6 Router Advertisement prefix off-link flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: off-link

Attribute Type: empty

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <ipv6-prefixes>
        <config>
          </off-link><!-- operation="delete"-->
        </config>
      </ipv6-prefixes>
    </interface>
  </interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd prefix offlink
```

Configure no auto configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <ipv6-prefixes>
      <config>
        </no-auto-configuration><!-- operation="delete"-->
      </config>
    </ipv6-prefixes>
  </interface>
</interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd prefix no-autoconf
```

Configure valid lifetime

The IPV6 Router Advertisement prefix valid lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <ipv6-prefixes>
```

```

<config>
  <valid-lifetime>0</valid-lifetime> <!-- operation="delete"-->
</config>
</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix valid-lifetime <0-4294967295>
```

Configure preferred lifetime

The IPV6 Router Advertisement prefix preferred lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <ipv6-prefixes>
      <config>
        <preferred-lifetime>0</preferred-lifetime> <!-- operation="delete"-->
      </config>
    </ipv6-prefixes>
  </interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix preferred-lifetime <0-4294967295>
```

Configure ipv6 address

The IPV6 Router Advertisement prefix address

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: ipv6-address

Attribute Type: string

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <ipv6-prefixes>
    <ipv6-prefix> <!-- operation="delete"-->
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
        <ipv6-address>X:X::X:X/M</ipv6-address>
      </config>
    </ipv6-prefix>
  </ipv6-prefixes>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M
```

Configure name

The IPV6 Router Advertisement prefix address preferred lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <ipv6-prefixes>

```

```

<ipv6-prefix>
  <ipv6-address>X:X::X:X/M</ipv6-address>
  <config>
    <ipv6-address>X:X::X:X/M</ipv6-address>
    <valid-lifetime>0</valid-lifetime>
  </config>
  <preferred-lifetime>0</preferred-lifetime>
</ipv6-prefix>
</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295>
```

Configure ipv6-prefix off-link

The IPV6 Router Advertisement prefix off-link flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: off-link

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <ipv6-prefixes>
    <ipv6-prefix>
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
        <ipv6-address>X:X::X:X/M</ipv6-address>
        <valid-lifetime>0</valid-lifetime>
      </config>
    </ipv6-prefix>
  </ipv6-prefixes>
</router-advertisement>

```

```

    <preferred-lifetime>0</preferred-lifetime>
  </config>
</off-link>
</ipv6-prefix>
</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> off-link
```

Configure ipv6-prefix no-auto-configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <ipv6-prefixes>
      <ipv6-prefix>
        <ipv6-address>X:X::X:X/M</ipv6-address>
        <config>
          <ipv6-address>X:X::X:X/M</ipv6-address>
          <valid-lifetime>0</valid-lifetime>
          <preferred-lifetime>0</preferred-lifetime>
        </config>
        </no-auto-configuration>
      </ipv6-prefix>
    </ipv6-prefixes>
  </interfaces>
</router-advertisement>

```

```

</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> no-autoconfig
```

Configure ipv6-prefix no-auto-configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Attribute Name: off-link

Attribute Type: empty

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <ipv6-prefixes>
      <ipv6-prefix>
        <ipv6-address>X:X::X:X/M</ipv6-address>
        <config>
          <ipv6-address>X:X::X:X/M</ipv6-address>
          <valid-lifetime>0</valid-lifetime>
          <preferred-lifetime>0</preferred-lifetime>
          </off-link>
        </config>
        </no-auto-configuration>
      </ipv6-prefix>
    </ipv6-prefixes>
  </interface>
</interfaces>
</router-advertisement>

```

```

</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>

```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> off-link no-autoconfig
```

Configure reachable time

Use this attribute to set advertised reachability time

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: reachable-time

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-3600000

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <timers>
    <config>
      <reachable-time>0</reachable-time> <!-- operation="delete"-->
    </config>
  </timers>
</router-advertisement>

```

Command Syntax

```
ipv6 nd reachable-time <0-3600000>
```

Configure retransmission time

Use this attribute to set advertised retransmission timer

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: retransmission-time

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <timers>
    <config>
      <retransmission-time>0</retransmission-time> <!-- operation="delete"-->
    </config>
  </timers>
</router-advertisement>

```

Command Syntax

```
ipv6 nd retransmission-time <0-4294967295>
```

Configure router lifetime

Use this attribute to set IPv6 router advertisement lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: router-lifetime

Attribute Type: uint16

Default Value: 1800

Attribute Range: 0-9000

Netconf edit-config payload

```

<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <timers>
    <config>
      <router-lifetime>0</router-lifetime> <!-- operation="delete"-->
    </config>
  </timers>
</router-advertisement>

```

Command Syntax

```
ipv6 nd ra-lifetime <0-9000>
```

Configure max ra interval

Use this attribute to set maximum IPv6 router advertisement interval (min-ra-interval must be no greater than 0.75*max-ra-interval)

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: max-ra-interval

Attribute Type: uint32

Attribute Range: 4-1800

Attribute Name: min-ra-interval

Attribute Type: uint32

Attribute Range: 3-1350

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    </interface>
  </interfaces>
  <timers>
    <ra-interval>
      <config>
        <min-ra-interval>3</min-ra-interval>
        <max-ra-interval>4</max-ra-interval>
      </config>
    </ra-interval>
  </timers>
</interface>
</interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd ra-interval <4-1800> (<3-1350>|)
```

IPI-ERPSV2

Configure ring name

G.8032 ring name. This attribute uniquely identifies a ring on the network device.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <rings>
    <ring> <!-- operation="delete"-->
      <ring-name>RINGNAME</ring-name>
      <config>
        <ring-name>RINGNAME</ring-name>
      </config>
    </ring>
  </rings>
</erpsv2>
```

Command Syntax

```
g8032 ring RINGNAME
```

Configure east interface

East port associated to the protection ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: east-interface

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <rings>
    <ring>
      <ring-name>RINGNAME</ring-name>
      <config>
        <ring-name>RINGNAME</ring-name>
      </config>
      <east-interface>IFNAME</east-interface> <!-- operation="delete"-->
    </ring>
  </rings>
</erpsv2>
```

Command Syntax

```
east-interface IFNAME
```

Configure west interface

West port associated to the protection ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: west-interface

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <rings>
    <ring>
      <ring-name>RINGNAME</ring-name>
      <config>
        <ring-name>RINGNAME</ring-name>
      </config>
      <west-interface>IFNAME</west-interface> <!-- operation="delete"-->
    </ring>
  </rings>
</erpsv2>
```

Command Syntax

```
west-interface IFNAME
```

Configure description

Textual description of the ring.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <rings>
    <ring>
      <ring-name>RINGNAME</ring-name>
      <config>
        <ring-name>RINGNAME</ring-name>
      </config>
      <description>1</description> <!-- operation="delete"-->
    </ring>
  </rings>
</erpsv2>
```

Command Syntax

```
description LINE
```

Configure profile name

G.8032 ring profile name

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <profiles>
    <profile> <!-- operation="delete"-->
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
    </profile>
  </profiles>
</erpsv2>
```

Command Syntax

```
g8032 profile PROFILENAME
```

Configure wait to restore timer

In revertive mode the 'wait to restore' (WTR) timer is used to prevent frequent operation of the protection switching due to intermittent signal failure defects. When recovering from a Signal fail, the delay timer must be long enough to allow the recovering network to become stable. WTR timer is activated on RPL owner node. When WTR timer is expired RPL owner node initiates the reversion process by transmitting an R-APS (NR, RB) message.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-12

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <profiles>
    <profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <wait-to-restore-timer>1</wait-to-restore-timer> <!-- operation="delete"-->
    </profile>
  </profiles>
</erpsv2>
```

Command Syntax

```
timer wait-to-restore <1-12>
```

Configure hold off timer

The hold-off timer is used to coordinate the timing of protection switches. When a new defect or more severe defect occurs (new SF), this event is not to be reported immediately to protection switching if the provisioned hold-off timer value is non-zero. Instead, the hold-off timer is started. When the hold-off timer expires, the trail that started the timer is checked as to whether a defect still exists. If one does exist, that defect is reported to protection switching. Hold off timer values SHOULD be specified in multiple of 100.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-10000

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <profiles>
    <profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <hold-off-timer>0</hold-off-timer> <!-- operation="delete"-->
    </profile>
  </profiles>
</erpsv2>
```

Command Syntax

```
timer hold-off <0-10000>
```

Configure guard time

The guard time is used to prevent Ethernet ring nodes from acting upon outdated R-APS messages and prevents the possibility of forming a closed loop. This timer period SHOULD be greater than the maximum expected forwarding delay in which an R-APS message traverses the entire ring. The period of the guard timer MAY be configured by the operator in 10 ms steps between 10 ms and 2 seconds.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: guard-time

Attribute Type: uint16

Default Value: 500

Attribute Range: 10-2000

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <profiles>
    <profile>
      <profile-name>PROFILENAME</profile-name>
```

```

    <config>
      <profile-name>PROFILENAME</profile-name>
    </config>
    <guard-time>10</guard-time> <!-- operation="delete"-->
  </profile>
</profiles>
</erpsv2>

```

Command Syntax

```
timer guard-time <10-2000>
```

Configure protection mode

This leaf defines G.8032 ring protection mode. A ring may operate in revertive or non-revertive mode. In revertive operation, after the condition(s) causing a switch has cleared, the traffic channel is restored to the working transport entity, i.e., blocked on the RPL. In non-revertive operation, the traffic channel continues to use the RPL, if it has not failed, after a switch condition has cleared.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: protection-mode

Attribute Type: enum (revertive|non-revertive)

Default Value: revertive

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <profiles>
    <profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
        <profile-name>PROFILENAME</profile-name>
      </config>
      <protection-mode>revertive</protection-mode> <!-- operation="delete"-->
    </profile>
  </profiles>
</erpsv2>

```

Command Syntax

```
switching mode (revertive|non-revertive)
```

Configure name

ERPS instance identifier

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance> <!-- operation="delete"-->
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
g8032 erp-instance INSTANCENAME
```

Configure erp-instance ring-name

This parameter specifies the ring instance to associated with the ERPS instance

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <ring-name>RINGNAME</ring-name> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
ring RINGNAME
```

Configure mapped profile name

G.8032 ring profile name. If this profile exists in the profile configuration list, profile parameters will be imported from it, default values will be used otherwise.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: mapped-profile-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <mapped-profile-name>PROFILENAME</mapped-profile-name> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
g8032-profile PROFILENAME
```

Configure ring type

Defines type of a ethernet ring. A ring can be configured as major ring where ring nodes are connected in closed loop or as a sub-ring when a ring may not have a complete closed loop

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-type

Attribute Type: enum (major-ring|sub-ring|sub-ring-vc)

Default Value: major-ring

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <ring-type>major-ring</ring-type> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
ring-type (major-ring|sub-ring|sub-ring-vc)
```

Configure enable tcn propagation

Allows topology change notification (TCN) propagation to the ERPS ring if it is enabled

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: enable-tcn-propagation

Attribute Type: empty

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      </enable-tcn-propagation><!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
enable-tcn-propagation
```

Configure tcn to instances

List of Instance that are to be notified when TCN occurs for this instance if topology change notification (TCN) propagation is enabled

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: tcn-to-instances

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <tcn-to-instances>INSTANCENAME</tcn-to-instances> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
tcn-to-instance INSTANCENAME
```

Configure non virtual channel

Creates a non-virtual channel

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: non-virtual-channel

Attribute Type: empty

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      </non-virtual-channel><!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
non-virtual-channel
```

Configure ring id

G.8032 ring instance identifier (Ring ID).

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-id

Attribute Type: uint8

Attribute Range: 1-239

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <ring-id>1</ring-id> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
ring-id <1-239>
```

Configure erp-instance description

Textual description of the erps-instance.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
      <description>1</description> <!-- operation="delete"-->
    </erp-instance>
  </erp-instances>
</erpsv2>
```

Command Syntax

```
description LINE
```

Configure associate ring name

G.8032 ring name to be associate with.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: associate-ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    <associate-rings>
      <associate-ring> <!-- operation="delete"-->
        <associate-ring-name>RINGNAME</associate-ring-name>
      <config>
        <associate-ring-name>RINGNAME</associate-ring-name>
      </config>
    </associate-ring>
  </associate-rings>
</erp-instance>
</erp-instances>
```

```
</erpsv2>
```

Command Syntax

```
associate-ring RINGNAME
```

Configure owner port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: owner-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    <instance-role>
      <config>
        <owner-port-id>east-interface</owner-port-id> <!-- operation="delete"-->
      </config>
    </instance-role>
  </erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
rpl role owner (east-interface|west-interface)
```

Configure neighbor port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: neighbor-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    </erp-instance>
  </erp-instances>
</erpsv2>
```

```

    <instance-role>
    <config>
        <neighbor-port-id>east-interface</neighbor-port-id> <!-- operation="delete"-->
>
    </config>
</instance-role>
</erp-instance>
</erp-instances>
</erpsv2>

```

Command Syntax

```
rpl role neighbor (east-interface|west-interface)
```

Configure next neighbor port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: next-neighbor-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
    <name>INSTANCENAME</name>
    <config>
        <name>INSTANCENAME</name>
    </config>
<instance-role>
<config>
    <next-neighbor-port-id>east-interface</next-neighbor-port-id> <!--
operation="delete"-->
</config>
</instance-role>
</erp-instance>
</erp-instances>
</erpsv2>

```

Command Syntax

```
rpl role next-neighbor (east-interface|west-interface)
```

Configure non owner

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: non-owner

Attribute Type: empty

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    <instance-role>
      <config>
        </non-owner><!-- operation="delete"-->
      </config>
    </instance-role>
  </erp-instance>
</erp-instances>
</erpsv2>

```

Command Syntax

```
rpl role non-owner
```

Configure level

Maintenance Endpoint Level (MEL) at which R-APS PDU is transmitted. All nodes in the ring must be configured with same APS level value.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    <aps-channel>
      <config>
        <level>0</level> <!-- operation="delete"-->
      </config>
    </aps-channel>
  </erp-instance>
</erp-instances>
</erpsv2>

```

Command Syntax

```
aps-channel level <0-7>
```

Configure vlan id

ERPS instance identifier

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance> <!-- operation="delete"-->
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    </erp-instance>
  </erp-instances>
  <aps-channel-vlans>
    <aps-channel-vlan>
      <vlan-id>2</vlan-id>
      <config>
        <inner-vlan-id>2</inner-vlan-id>
      </config>
    </aps-channel-vlan>
  </aps-channel-vlans>
</erpsv2>
```

Command Syntax

```
aps-channel vlan <2-4094> (inner-vlan <2-4094>|)
```

Configure data vlan

List of VLAN-IDs, protected by ring instance. For example '2, 3-7, 9, 10-100' VLAN-IDs MUST not overlap with VLAN-IDs of any other instance of the same ring.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: data-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    </erp-instance>
  </erp-instances>
</erpsv2>

```

Command Syntax

```
data vlan VLAN_RANGE
```

Configure attached instance

This parameter specifies the ERPS instance on major ring which allows the RAPS messages of Sub-ring, so RAPS message will be sent to other nodes in the sub-ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: attached-instance

Attribute Type: string

Attribute Range: 1-31

Attribute Name: channel-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```

<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <erp-instances>
    <erp-instance>
      <name>INSTANCENAME</name>
      <config>
        <name>INSTANCENAME</name>
      </config>
    </erp-instance>
  </erp-instances>
</erpsv2>

```

```
</erp-instances>
</erpsv2>
```

Command Syntax

```
virtual-channel (<2-4094>|) attached-to-instance INSTANCENAME
```

Configure options

Supported debug options for G.8032

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <debug>
    <config>
      <options>all</options> <!-- operation="delete"-->
    </config>
  </debug>
</erpsv2>
```

Command Syntax

```
debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

Configure instance name

This parameter specifies the ERPS instance being configured in the subinterface

This command is supported when following feature are enabled SUBINTERFACE feature,ERPS V2 feature

Attribute Name: instance-name

Attribute Type: union

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <subinterfaces>
    <subinterface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <instance-name>ERPSV2_SUBINTERFACE_INSTANCE_TYPE_T</instance-name>
    </subinterface>
  </subinterfaces>
</erpsv2>
```

Command Syntax

```
erps-instance (WORD)
```

g8032 erp-instance (INSTANCENAME|all) (force-switch|manual-switch) (east-interface|west-interface)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Attribute Name: operation

Attribute Type: enum (force-switch|manual-switch)

Attribute Name: port-id

Attribute Type: enum (east-interface|west-interface)

Netconf RPC payload

```
<erpsv2-switch-erp-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <instance-name>INSTANCENAME</instance-name>
  <operation>force-switch</operation>
  <port-id>east-interface</port-id>
</erpsv2-switch-erp-instance>
```

Command Syntax

```
g8032 erp-instance (INSTANCENAME|all) (force-switch|manual-switch) (east-
interface|west-interface)
```

clear g8032 erp-instance (INSTANCENAME|all)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
<erpsv2-clear-ring-erp-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <instance-name>INSTANCENAME</instance-name>
</erpsv2-clear-ring-erp-instance>
```

Command Syntax

```
clear g8032 erp-instance (INSTANCENAME|all)
```

clear g8032 aps-statistics INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
<erpsv2-clear-aps-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <instance-name>INSTANCENAME</instance-name>
</erpsv2-clear-aps-statistics>
```

Command Syntax

```
clear g8032 aps-statistics INSTANCENAME
```

debug g8032 (all|tx|rx|fsm|timers|events|external|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf RPC payload

```
<erpsv2-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <terminal-debug-options>all</terminal-debug-options>
</erpsv2-terminal-debug-on>
```

Command Syntax

```
debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

no debug g8032 (all|tx|rx|fsm|timers|events|external|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf RPC payload

```
<erpsv2-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
  <terminal-debug-options>all</terminal-debug-options>
</erpsv2-terminal-debug-off>
```

Command Syntax

```
no debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

IPI-G8031

Configure working port

port for the working EPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: working-port

Attribute Type: string

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <working-port>IFNAME</working-port> <!-- operation="delete"-->
    </instance>
  </instances>
</g8031>
```

Command Syntax

working-port IFNAME

Configure protection port

port for the protection EPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: protection-port

Attribute Type: string

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <protection-port>IFNAME</protection-port> <!-- operation="delete"-->
    </instance>
  </instances>
</g8031>
```

Command Syntax

protection-port IFNAME

Configure elps instance id

MSTP Instance Identifier

This command is supported when following feature are enabled ELPS feature

Attribute Name: elps-instance-id

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <elaps-instance-id>1</elaps-instance-id> <!-- operation="delete"-->
    </instance>
  </instances>
</g8031>
```

Command Syntax

```
instance <1-63>
```

Configure data vlans

VLAN Identifier

This command is supported when following feature are enabled ELPS feature

Attribute Name: data-vlans

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <data-vlans>VLAN_RANGE</data-vlans> <!-- operation="delete"-->
    </instance>
  </instances>
</g8031>
```

Command Syntax

```
vlan VLAN_RANGE
```

Configure primary vlan

Indicates if the given VLAN is primary VLAN of protection group

This command is supported when following feature are enabled ELPS feature

Attribute Name: primary-vlan

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <primary-vlan>2</primary-vlan> <!-- operation="delete"-->
    </instance>
  </instances>
</g8031>
```

Command Syntax

```
primary-vlan <2-4094>
```

IPI-G8031-ELPS

Configure wait to restore

EPS wait-to-restore timer

Attribute Name: wait-to-restore

Attribute Type: uint16

Attribute Range: 300-720

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <elps>
        <timers>
          <config>
            <wait-to-restore>300</wait-to-restore> <!-- operation="delete"-->
          </config>
        </timers>
      </elps>
    </instance>
  </instances>
</g8031>
```

Command Syntax

```
timer wait-to-restore <300-720>
```

Configure hold off

EPS hold-off timer

Attribute Name: hold-off

Attribute Type: uint8

Attribute Range: 0-10

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <elps>
        <timers>
          <config>
            <hold-off>0</hold-off> <!-- operation="delete"-->
          </config>
        </timers>
      </elps>
    </instance>
  </instances>
</g8031>
```

Command Syntax

```
timer hold-off-time <0-10>
```

Configure local freeze

Freezes the state of the protection group.

Attribute Name: local-freeze

Attribute Type: empty

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instances>
    <instance>
      <eps-id>1</eps-id>
      <config>
        <eps-id>1</eps-id>
      </config>
      <elps>
```



```

    <traffic-switch>
    <config>
        </local-freeze><!-- operation="delete"-->
    </config>
</traffic-switch>
</elps>
</instance>
</instances>
</g8031>

```

Command Syntax

local-freeze

Configure protection type

protection bridge mode

Attribute Name: protection-type

Attribute Type: enum (one-plus-one-bidirectional|one-plus-one-unidirectional|one-and-one-bidirectional)

Netconf edit-config payload

```

<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
    <instance>
        <eps-id>1</eps-id>
        <config>
            <eps-id>1</eps-id>
        </config>
        <elps>
            <config>
                <protection-type>one-plus-one-bidirectional</protection-type> <!--
operation="delete"-->
            </config>
        </elps>
    </instance>
</instances>
</g8031>

```

Command Syntax

mode (one-plus-one-bidirectional|one-plus-one-unidirectional|one-and-one-bidirectional)

Configure enable revertive mode

protection restoration mode

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
  <instance>
    <eps-id>1</eps-id>
    <config>
      <eps-id>1</eps-id>
    </config>
    <elps>
      <config>
        </enable-revertive-mode><!-- operation="delete"-->
      </config>
    </elps>
  </instance>
</instances>
</g8031>
```

Command Syntax

```
revertive
```

Configure level identifier

Ethernet Linear Protection switching level

Attribute Name: level-identifier

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
  <instance>
    <eps-id>1</eps-id>
    <config>
      <eps-id>1</eps-id>
    </config>
    <elps>
      <config>
        <level-identifier>0</level-identifier> <!-- operation="delete"-->
      </config>
    </elps>
  </instance>
</instances>
</g8031>
```

Command Syntax

```
level <0-7>
```

Configure name

G.8031 profile name

This command is supported when following feature are enabled ELPS feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <profiles>
      <profile> <!-- operation="delete"-->
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </profile>
    </profiles>
  </g8031-elps>
</g8031>
```

Command Syntax

```
g8031 profile WORD
```

Configure mode

G.8031 mode

This command is supported when following feature are enabled ELPS feature

Attribute Name: mode

Attribute Type: enum (one-and-one-bidirectional|one-plus-one-bidirectional|one-plus-one-unidirectional)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <profiles>
      <profile>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <mode>one-and-one-bidirectional</mode> <!-- operation="delete"-->
      </profile>
    </profiles>
  </g8031-elps>
</g8031>
```

Command Syntax

```
mode (one-and-one-bidirectional|one-plus-one-bidirectional|one-plus-one-
unidirectional)
```

Configure switching mode

Use this attribute to set/unset switching mode

This command is supported when following feature are enabled ELPS feature

Attribute Name: switching-mode

Attribute Type: enum (non-revertive|revertive)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <profiles>
      <profile>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <switching-mode>non-revertive</switching-mode> <!-- operation="delete"-->
      </profile>
    </profiles>
  </g8031-elps>
</g8031>
```

Command Syntax

```
switching mode (non-revertive|revertive)
```

Configure timer hold off

The hold-off timer is used to coordinate the timing of protection switches

This command is supported when following feature are enabled ELPS feature

Attribute Name: timer-hold-off

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <profiles>
      <profile>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
      </profile>
    </profiles>
  </g8031-elps>
</g8031>
```

```
        <timer-hold-off>1</timer-hold-off> <!-- operation="delete"-->
</profile>
</profiles>
</g8031-elps>
</g8031>
```

Command Syntax

```
timer hold-off <1-10>
```

Configure timer wait to restore

Use this attribute to set/unset the timer wait to restore

This command is supported when following feature are enabled ELPS feature

Attribute Name: timer-wait-to-restore

Attribute Type: uint32

Attribute Range: 300-720

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <profiles>
      <profile>
        <name>WORD</name>
        <config>
          <name>WORD</name>
        </config>
        <timer-wait-to-restore>300</timer-wait-to-restore> <!-- operation="delete"-->
      </profile>
    </profiles>
  </g8031-elps>
</g8031>
```

Command Syntax

```
timer wait-to-restore <300-720>
```

Configure group name

G.8031 ELPS protection group name

This command is supported when following feature are enabled ELPS feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
```

```

<protections>
<protection> <!-- operation="delete"-->
  <group-name>WORD</group-name>
  <config>
    <group-name>WORD</group-name>
  </config>
</protection>
</protections>
</g8031-elps>
</g8031>

```

Command Syntax

```
g8031 eps-protection group WORD
```

Configure working port

Port for working ELPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: working-port

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<protections>
<protection>
  <group-name>WORD</group-name>
  <config>
    <group-name>WORD</group-name>
  </config>
  <working-port>IFNAME</working-port> <!-- operation="delete"-->
</protection>
</protections>
</g8031-elps>
</g8031>

```

Command Syntax

```
working-port IFNAME
```

Configure protection port

Port for the protection ELPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: protection-port

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <protections>
      <protection>
        <group-name>WORD</group-name>
        <config>
          <group-name>WORD</group-name>
        </config>
        <protection-port>IFNAME</protection-port> <!-- operation="delete"-->
      </protection>
    </protections>
  </g8031-elps>
</g8031>
```

Command Syntax

```
protection-port IFNAME
```

Configure eps-instances name

Instance name to identify the EPS protection group

Attribute Name: name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance> <!-- operation="delete"-->
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
      </eps-instance>
    </eps-instances>
  </g8031-elps>
</g8031>
```

Command Syntax

```
g8031 eps-instance INSTANCE-NAME
```

Configure eps protection group

Group name for protection EPS

Attribute Name: eps-protection-group

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance>
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <eps-protection-group>WORD</eps-protection-group> <!-- operation="delete"-->
      </eps-instance>
    </eps-instances>
  </g8031-elps>
</g8031>
```

Command Syntax

eps-protection-group WORD

Configure g8031 profile name

G8031 profile name

Attribute Name: g8031-profile-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance>
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <g8031-profile-name>WORD</g8031-profile-name> <!-- operation="delete"-->
      </eps-instance>
    </eps-instances>
  </g8031-elps>
</g8031>
```

Command Syntax

g8031-profile WORD

Configure level

APS level value.

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance>
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <aps-channel>
          <config>
            <level>0</level> <!-- operation="delete"-->
          </config>
        </aps-channel>
      </eps-instance>
    </eps-instances>
  </g8031-elps>
</g8031>
```

Command Syntax

```
aps-channel level <0-7>
```

Configure inner vlan id

Control inner VLAN-ID used by ELPS instance to send and receive the RAPS messages

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance>
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <control-vlans>
          <control-vlan>
```

```

    <vlan-id>2</vlan-id>
  <config>
    <vlan-id>2</vlan-id>
  </config>
    <inner-vlan-id>2</inner-vlan-id>
</control-vlan>
</control-vlans>
</eps-instance>
</eps-instances>
</g8031-elps>
</g8031>

```

Command Syntax

```
control vlan <2-4094> (inner-vlan <2-4094>|)
```

Configure data vlan

List of VLAN-IDs, protected by ring instance. For example '2, 3-7, 9, 10-100' VLAN-IDs MUST not overlap with VLAN-IDs of any other instance of the same ring.

Attribute Name: data-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```

<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
    <eps-instances>
      <eps-instance>
        <name>INSTANCE-NAME</name>
        <config>
          <name>WORD</name>
        </config>
        <data>
          <config>
            <data-vlan>VLAN_RANGE</data-vlan> <!-- operation="delete"-->
          </config>
        </data>
      </eps-instance>
    </eps-instances>
  </g8031-elps>
</g8031>

```

Command Syntax

```
data vlan VLAN_RANGE
```

Configure options

Supported debug options for g8031

Attribute Name: options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <debug>
    <config>
      <options>all</options> <!-- operation="delete"-->
    </config>
  </debug>
</g8031>
```

Command Syntax

```
debug g8031 (all|rx|tx|fsm|events|hal)
```

lockout g8031 eps-instance INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Netconf RPC payload

```
<ipi-g8031-elps_g8031-lockout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
g8031">
  <instance-name>INSTANCENAME</instance-name>
</ipi-g8031-elps_g8031-lockout>
```

Command Syntax

```
lockout g8031 eps-instance INSTANCENAME
```

exercise g8031 eps-instance INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Netconf RPC payload

```
<ipi-g8031-elps_g8031-exercise xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
g8031">
  <instance-name>INSTANCENAME</instance-name>
</ipi-g8031-elps_g8031-exercise>
```

Command Syntax

```
exercise g8031 eps-instance INSTANCENAME
```

debug g8031 (all|rx|tx|fsm|events|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf RPC payload

```
<ipi-g8031-elps_g8031-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <terminal-debug-options>all</terminal-debug-options>
</ipi-g8031-elps_g8031-terminal-debug-on>
```

Command Syntax

```
debug g8031 (all|rx|tx|fsm|events|hal)
```

no debug g8031 (all|rx|tx|fsm|events|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf RPC payload

```
<ipi-g8031-elps_g8031-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <terminal-debug-options>all</terminal-debug-options>
</ipi-g8031-elps_g8031-terminal-debug-off>
```

Command Syntax

```
no debug g8031 (all|rx|tx|fsm|events|hal)
```

g8031 eps-instance (INSTANCENAME|all) (local-freeze|local-lockout|force-switch|manual-switch-working|manual-switch-protection|lockout|exercise)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Attribute Name: operation

Attribute Type: enum (local-freeze|local-lockout|force-switch|manual-switch-working|manual-switch-protection|lockout|exercise)

Netconf RPC payload

```
<ipi-g8031-elps_elps-switch-elp-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <instance-name>INSTANCENAME</instance-name>
  <operation>local-freeze</operation>
</ipi-g8031-elps_elps-switch-elp-instance>
```

Command Syntax

```
g8031 eps-instance (INSTANCENAME|all) (local-freeze|local-lockout|force-
switch|manual-switch-working|manual-switch-protection|lockout|exercise)
```

clear g8031 eps-instance (INSTANCENAME|all) ((local-freeze|local-lockout|))

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Attribute Name: eps-type

Attribute Type: enum (local-freeze|local-lockout)

Netconf RPC payload

```
<ipi-g8031-elps_eps-clear-ring-instance xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-g8031">
  <instance-name>INSTANCENAME</instance-name>
  <eps-type>local-freeze</eps-type>
</ipi-g8031-elps_eps-clear-ring-instance>
```

Command Syntax

```
clear g8031 eps-instance (INSTANCENAME|all) ((local-freeze|local-lockout|))
```

IPI-CFM

Configure cache enable

This attribute specifies the cache enable

This command is supported when following feature are enabled CFM feature

Attribute Name: cache-enable

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <global>
    <linktrace>
      <cache>
        <config>
          </cache-enable>
        </config>
      </cache>
    </linktrace>
  </global>
</cfm>
```

Command Syntax

```
ethernet cfm traceroute cache
```

Configure cache size

This attribute specifies the cache size

This command is supported when following feature are enabled CFM feature

Attribute Name: cache-size

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-4095

Attribute Name: cache-enable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <global>
    <linktrace>
      <cache>
        <config>
          </cache-enable><!-- operation="delete"-->
          <cache-size>1</cache-size> <!-- operation="delete"-->
        </config>
      </cache>
    </linktrace>
  </global>
</cfm>
```

Command Syntax

```
ethernet cfm traceroute cache size <1-4095>
```

Configure options

This attribute enables debugging for CFM

This command is supported when following feature are enabled CFM feature

Attribute Name: options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <debug>
    <config>
      <options>events</options> <!-- operation="delete"-->
    </config>
  </debug>
```

```
</cfm>
```

Command Syntax

```
debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

Configure type

Type discriminator for the value union described in the 'md-name' leaf

This command is supported when following feature are enabled CFM feature

Attribute Name: type

Attribute Type: enum (no-name|character-string)

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: mip-creation

Attribute Type: enum (none|default|explicit|static)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
        <level>0</level>
        <mip-creation>none</mip-creation>
      </config>
      <type>no-name</type>
    </maintenance-domain>
  </maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm domain-type (no-name|character-string) domain-name DOMAIN_NAME level
<0-7> (mip-creation (none|default|explicit|static) |)
```

Configure ma name

The value union for the Maintenance Association Name.

This command is supported when following feature are enabled CFM feature

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: type

Attribute Type: enum (string|integer|itu-t)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association> <!-- operation="delete"-->
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    <type>string</type>
  </config>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
service ma-type (string|integer|itu-t) ma-name MA_NAME
```

Configure enable rmep auto discovery

This attribute tells whether remote MEPs can be learnt from the peer

This command is supported when following feature are enabled CFM feature

Attribute Name: enable-rmep-auto-discovery

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    </enable-rmep-auto-discovery><!-- operation="delete"-->
  </config>
</maintenance-association>
</maintenance-associations>
</cfm>
```



```

</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
rmep auto-discovery enable
```

Configure bridge id

This parameter indicates which bridge this maintenance association will be augmented to.

This command is supported when following feature are enabled CFM feature

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
  </config>
    <bridge-id>1</bridge-id> <!-- operation="delete"-->
  </maintenance-association>
</maintenance-associations>
</maintenance-domains>
</cfm>

```

Command Syntax

```
vlan <1-4095> (bridge <1-32>|)
```

Configure md name

This parameter indicates which bridge this maintenance association will be augmented to.

This command is supported when following feature are enabled CFM feature

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: link-level-ma

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    </link-level-ma><!-- operation="delete"-->
  </config>
  <bridge-id>1</bridge-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
link-level (bridge <1-32>|)
```

Configure mip creation

This parameter indicates whether the management entity can create MIPs for this MA

This command is supported when following feature are enabled CFM feature

Attribute Name: mip-creation

Attribute Type: enum (none|default|explicit|defer)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
```

```

    <ma-name>MA_NAME</ma-name>
  </config>
  <ma-name>MA_NAME</ma-name>
</config>
  <mip-creation>none</mip-creation> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
(mip-creation (none|default|explicit|defer) |)
```

Configure inner vlan id

The inner VLAN ID monitored by this MA

This command is supported when following feature are enabled CFM feature

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
    <maintenance-associations>
      <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>
          <ma-name>MA_NAME</ma-name>
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
        </config>
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        </maintenance-association>
      </maintenance-associations>
    </maintenance-domain>
  </maintenance-domains>
</cfm>

```

Command Syntax

```
vlan <1-4095> (inner-vlan <1-4095>|)
```

Configure link level ma

Use this attribute to set the Service as Link Level MA

This command is supported when following feature are enabled CFM feature

Attribute Name: link-level-ma

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
    </maintenance-domain>
  </maintenance-domains>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
      <config>
        <ma-name>MA_NAME</ma-name>
      </config>
      </link-level-ma><!-- operation="delete"-->
    </maintenance-association>
  </maintenance-associations>
</cfm>
```

Command Syntax

```
link-level
```

Configure mip interface name

A list of static MIPs configured on the specified interfaces

This command is supported when following feature are enabled CFM feature

Attribute Name: mip-interface-name

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
```

```

        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <mip-interface-name>IFNAME</mip-interface-name> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm mip interface IFNAME
```

Configure evpn id

Use this attribute to set the Service as EVPN MA

This command is supported when following feature are enabled CFM feature

Attribute Name: evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <evpn-id>1</evpn-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
evpn <1-16777215>
```

Configure vpws vc name

This attribute uniquely identifies a VPWS circuit

This command is supported when following feature are enabled CFM feature

Attribute Name: vpws-vc-name

Attribute Type: string

Attribute Range: 1-30

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
    </maintenance-domain>
  </maintenance-domains>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
      <config>
        <ma-name>MA_NAME</ma-name>
        <vpws-vc-name>VCNAME</vpws-vc-name> <!-- operation="delete"-->
      </config>
    </maintenance-association>
  </maintenance-associations>
</cfm>
```

Command Syntax

```
vpws VCNAME
```

Configure ccm interval

The interval between CCM transmissions to be used by all MEPs in the MA

This command is supported when following feature are enabled CFM feature

Attribute Name: ccm-interval

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
```

```

    <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
  <ccm-interval>3ms</ccm-interval> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
cc interval (3ms|10ms|100ms|1s|10s|1min|10min)
```

Configure static rmep identifiers

A list of static remote MEPs in a specified MA.

This command is supported when following feature are enabled CFM feature

Attribute Name: static-rmep-identifiers

Attribute Type: uint16

Attribute Range: 1-8191

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  <maintenance-associations>
  <maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
      <ma-name>MA_NAME</ma-name>
    </config>
    <static-rmep-identifiers>1</static-rmep-identifiers> <!-- operation="delete"-
->
  </maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
mep crosscheck mpid <1-8191>
```

Configure mep id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>>false</administrative-state>
    <interface-name>IFNAME</interface-name>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
```



```
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME
```

Configure direction

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mep-outer-vlan

Attribute Type: uint16

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
</maintenance-association>
</maintenance-associations>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>false</administrative-state>
    <interface-name>IFNAME</interface-name>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</cfm>
```

```

        <mep-outer-vlan>1</mep-outer-vlan>
    </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME vlan <1-4094>
```

Configure administrative state

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mep-outer-vlan

Attribute Type: uint16

Attribute Name: mep-inner-vlan

Attribute Type: uint16

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
    <config>
      <ma-name>MA_NAME</ma-name>
    </config>
  </maintenance-associations>
</cfm>

```

```

</config>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>false</administrative-state>
    <interface-name>IFNAME</interface-name>
    <mep-outer-vlan>1</mep-outer-vlan>
    <mep-inner-vlan>1</mep-inner-vlan>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```

ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME vlan <1-4094>
inner-vlan <1-4094>

```

Configure remote vpws vc name

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-vpws-vc-name

Attribute Type: string

Attribute Range: 1-30

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
</config>

```

```

        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>>false</administrative-state>
            <remote-vpws-vc-name>VCNAME</remote-vpws-vc-name>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) vpws VCNAME
```

Configure remote evpn id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
```

```

<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>>false</administrative-state>
    <remote-evpn-id>1</remote-evpn-id>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) evpn <1-16777215>
```

Configure maintenance-end-points mep-id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
</maintenance-association>
</maintenance-associations>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>false</administrative-state>
    <remote-evpn-id>1</remote-evpn-id>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) evpn <1-16777215>
```

Configure remote vtep ip

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-vtep-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
</maintenance-association>
</maintenance-associations>
<maintenance-end-points>
<maintenance-end-point> <!-- operation="delete"-->
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
    <direction>down</direction>
    <administrative-state>>false</administrative-state>
    <remote-vtep-ip>A.B.C.D</remote-vtep-ip>
  </config>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) remote-vtep A.B.C.D
```

Configure bw mapped interface

This attribute specifies interface where the bandwidth shapers are to be applied

This command is supported when following feature are enabled CFM feature

Attribute Name: bw-mapped-interface

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
```

```

<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
  <maintenance-end-points>
  <maintenance-end-point>
    <mep-id>1</mep-id>
    <config>
      <mep-id>1</mep-id>
    </config>
    <bw-mapped-interface>IFNAME</bw-mapped-interface> <!--
operation="delete"-->
  </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
bw-mapped-interface IFNAME
```

Configure enable cc multicast

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-cc-multicast

Attribute Type: empty

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  </maintenance-domain>
  </maintenance-domains>
</cfm>

```



```

<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
  <maintenance-end-points>
  <maintenance-end-point>
    <mep-id>1</mep-id>
    <config>
      <mep-id>1</mep-id>
    </config>
    <continuity-check>
    <config>
      </enable-cc-multicast>
    </config>
    </continuity-check>
  </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
cc multicast state enable
```

Configure mep rmep auto discovery

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: mep-rmep-auto-discovery

Attribute Type: empty

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
<maintenance-associations>
<maintenance-association>

```

```

    <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
  <maintenance-end-points>
  <maintenance-end-point>
    <mep-id>1</mep-id>
    <config>
      <mep-id>1</mep-id>
    </config>
    <continuity-check>
    <config>
      </mep-rmep-auto-discovery>
    </config>
    </continuity-check>
  </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
rmep auto-discovery enable
```

Configure lowest fault priority defect

The lowest priority defect that is allowed to generate a Fault Alarm. The non-existence of this leaf means that no defects are to be reported

This command is supported when following feature are enabled CFM feature

Attribute Name: lowest-fault-priority-defect

Attribute Type: enum (defRDICCM|defMACstatus|defRemoteCCM|defErrorCCM|defXconCCM)

Default Value: defMACstatus

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  <maintenance-associations>
  <maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
      <ma-name>MA_NAME</ma-name>
    </config>
  </maintenance-association>
</maintenance-associations>
</maintenance-domains>
</cfm>

```

```

</config>
<maintenance-end-points>
<maintenance-end-point>
  <mep-id>1</mep-id>
  <config>
    <mep-id>1</mep-id>
  </config>
  <continuity-check>
  <config>
    <lowest-fault-priority-defect>defMACstatus</lowest-fault-priority-
defect> <!-- operation="delete"-->
  </config>
</continuity-check>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```

mep lowest-priority-defect
(defRDICCM|defMACstatus|defRemoteCCM|defErrorCCM|defXconCCM)

```

Configure mep rmep cross check

A list of static remote MEPs in a specified MA.

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-rmep-cross-check

Attribute Type: uint16

Attribute Range: 1-8191

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
  </config>
<maintenance-end-points>
<maintenance-end-point>

```

```

        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
        </config>
        <continuity-check>
        <config>
            <mep-rmep-cross-check>1</mep-rmep-cross-check> <!--
operation="delete"-->
        </config>
    </continuity-check>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
mep crosscheck mpid <1-8191>
```

clear ethernet cfm maintenance-points remote domain DOMAIN_NAME

Attribute Name: domain-name

Attribute Type: string

Netconf RPC payload

```

<cfm-l2-clear-ethernet-remote-meps xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-cfm">
    <domain-name>DOMAIN_NAME</domain-name>
</cfm-l2-clear-ethernet-remote-meps>

```

Command Syntax

```
clear ethernet cfm maintenance-points remote domain DOMAIN_NAME
```

clear ethernet cfm statistics

Netconf RPC payload

```
<cfm-clear-all-mep-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
clear ethernet cfm statistics
```

clear ethernet cfm statistics mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: domain-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<cfm-l2-clear-mep-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <domain-name>DOMAIN_NAME</domain-name>
  <ma-name>MA_NAME</ma-name>
</cfm-l2-clear-mep-stats>
```

Command Syntax

```
clear ethernet cfm statistics mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

cfm snmp restart

Netconf RPC payload

```
<cfm-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
cfm snmp restart
```

debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf RPC payload

```
<cfm-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <terminal-debug-options>events</terminal-debug-options>
</cfm-terminal-debug-on>
```

Command Syntax

```
debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

no debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf RPC payload

```
<cfm-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <terminal-debug-options>events</terminal-debug-options>
</cfm-terminal-debug-off>
```

```
</cfm-terminal-debug-off>
```

Command Syntax

```
no debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

clear ethernet cfm traceroute-cache

Netconf RPC payload

```
<cfm-l2-clear-linktrace-cache xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
clear ethernet cfm traceroute-cache
```

IPI-CFM-VXLAN-OAM

Configure mode

Use this attribute to set the VxLAN OAM mode of operation

Attribute Name: mode

Attribute Type: enum (leaf|spine)

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <global>
    <nvo3-oam>
      <config>
        </enable><!-- operation="delete"-->
        <mode>1</mode> <!-- operation="delete"-->
      </config>
    </nvo3-oam>
  </global>
</cfm>
```

Command Syntax

```
nvo vxlan-oam
```

Configure enable

Use this attribute to set the VxLAN OAM mode of operation

Attribute Name: mode

Attribute Type: enum (leaf|spine)

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <global>
    <nvo3-oam>
      <config>
        </enable><!-- operation="delete"-->
        <mode>leaf</mode> <!-- operation="delete"-->
      </config>
    </nvo3-oam>
  </global>
</cfm>
```

Command Syntax

```
nvo vxlan-oam (spine)
```

IPI-CFM-Y1731

Configure enable receive

A unique identifier of a Maintenance Domain

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: md-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-receive

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain> <!-- operation="delete"-->
      <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  </maintenance-domains>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
```

```

    <maintenance-end-points>
    <maintenance-end-point>
      <mep-id>1</mep-id>
      <ethernet-bandwidth-notification>
      <config>
        </enable-receive>
      </config>
    </ethernet-bandwidth-notification>
  </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
bn receive
```

Configure wait to restore timer

This attribute sets the time to wait before nominal bandwidth is set

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: wait-to-restore-timer

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-86400

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
        <maintenance-association>
          <ma-name>MA_NAME</ma-name>
          <config>
            <ma-name>MA_NAME</ma-name>
          </config>
          <maintenance-end-points>
            <maintenance-end-point>
              <mep-id>1</mep-id>
              <config>
                <mep-id>1</mep-id>
              </config>
            </mep-id>
          </mep-id>
        </mep-id>
      </mep-id>
    </mep-id>
  </mep-id>
</mep-id>

```



```

        <ethernet-bandwidth-notification>
        <config>
            <wait-to-restore-timer>0</wait-to-restore-timer> <!--
operation="delete"-->
        </config>
        </ethernet-bandwidth-notification>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
wait-to-restore-timer <0-86400>
```

Configure peer port id

This attribute sets the peer port id used to map the received ETH-BN frame

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: peer-port-id

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
    <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
            <md-name>DOMAIN_NAME</md-name>
        </config>
        <maintenance-associations>
            <maintenance-association>
                <ma-name>MA_NAME</ma-name>
                <config>
                    <ma-name>MA_NAME</ma-name>
                </config>
                <maintenance-end-points>
                    <maintenance-end-point>
                        <mep-id>1</mep-id>
                        <config>
                            <mep-id>1</mep-id>
                        </config>
                    <ethernet-bandwidth-notification>
                        <config>
                            <peer-port-id>1</peer-port-id> <!-- operation="delete"-->
                        </config>
                    </ethernet-bandwidth-notification>
                </maintenance-end-points>
            </maintenance-association>
        </maintenance-associations>
    </maintenance-domain>
</maintenance-domains>
</cfm>

```

```

        </ethernet-bandwidth-notification>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
peer-port-id <1-4294967295>
```

Configure adaptive bandwidth disable

This attribute will disable the adaptive bandwidth

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: adaptive-bandwidth-disable

Attribute Type: empty

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
    <maintenance-associations>
      <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>
          <ma-name>MA_NAME</ma-name>
        </config>
        <maintenance-end-points>
          <maintenance-end-point>
            <mep-id>1</mep-id>
            <config>
              <mep-id>1</mep-id>
            </config>
            <ethernet-bandwidth-notification>
              <config>
                </adaptive-bandwidth-disable><!-- operation="delete"-->
              </config>
            </ethernet-bandwidth-notification>
          </maintenance-end-point>
        </maintenance-end-points>
      </maintenance-association>
    </maintenance-associations>
  </maintenance-domain>

```

```
</maintenance-domains>
</cfm>
```

Command Syntax

```
adaptive bandwidth disable
```

Configure maintenance-domains md-name

A unique identifier of a Maintenance Domain

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: md-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-receive

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain> <!-- operation="delete"-->
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <maintenance-end-points>
<maintenance-end-point>
  <mep-id>1</mep-id>
  <ethernet-client-signal-fail>
  <config>
    </enable-receive>
  </config>
</ethernet-client-signal-fail>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
csf receive
```

Configure md name

This attribute sets the time to wait before nominal bandwidth is set

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: wait-to-restore-timer

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-86400

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
    <maintenance-associations>
      <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>
          <ma-name>MA_NAME</ma-name>
        </config>
        <maintenance-end-points>
          <maintenance-end-point>
            <mep-id>1</mep-id>
            <config>
              <mep-id>1</mep-id>
            </config>
            <ethernet-client-signal-fail>
              <config>
                <wait-to-restore-timer>0</wait-to-restore-timer> <!--
operation="delete"-->
              </config>
            </ethernet-client-signal-fail>
          </maintenance-end-point>
        </maintenance-end-points>
      </maintenance-association>
    </maintenance-associations>
  </maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
wait-to-restore-timer <0-86400>
```

Configure lock state

This attribute specifies the locking state

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: lock-state

Attribute Type: enum (unlock|lock)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
    <maintenance-associations>
      <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>
          <ma-name>MA_NAME</ma-name>
        </config>
        <maintenance-end-points>
          <maintenance-end-point>
            <mep-id>1</mep-id>
            <config>
              <mep-id>1</mep-id>
            </config>
            <ethernet-locked-signal>
              <config>
                <lock-state>unlock</lock-state>
              </config>
            </ethernet-locked-signal>
          </maintenance-end-point>
        </maintenance-end-points>
      </maintenance-association>
    </maintenance-associations>
  </maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
lck state (unlock|lock)
```

Configure client md level

The Maintenance Domain Level of the Client LCK PDU (transmitted level)

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: client-md-level

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
        <maintenance-association>
          <ma-name>MA_NAME</ma-name>
          <config>
            <ma-name>MA_NAME</ma-name>
          </config>
          <maintenance-end-points>
            <maintenance-end-point>
              <mep-id>1</mep-id>
              <config>
                <mep-id>1</mep-id>
              </config>
              <ethernet-locked-signal>
                <config>
                  <client-md-level>0</client-md-level> <!--
operation="delete"-->
                </config>
              </ethernet-locked-signal>
            </maintenance-end-point>
          </maintenance-end-points>
        </maintenance-association>
      </maintenance-associations>
    </maintenance-domain>
  </maintenance-domains>
</cfm>
```

Command Syntax

```
message level <0-7>
```

Configure interval

This attribute specifies the ETH-LCK transmission period

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: interval

Attribute Type: enum (1s|1min)

Default Value: 1s

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
  <maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
      <md-name>DOMAIN_NAME</md-name>
    </config>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
      <config>
        <ma-name>MA_NAME</ma-name>
      </config>
    <maintenance-end-points>
      <maintenance-end-point>
        <mep-id>1</mep-id>
        <config>
          <mep-id>1</mep-id>
        </config>
        <ethernet-locked-signal>
          <config>
            <interval>1s</interval> <!-- operation="delete"-->
          </config>
        </ethernet-locked-signal>
      </maintenance-end-point>
    </maintenance-end-points>
  </maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
interval (1s|1min)
```

Configure priority

This attribute specifies the priority of frames with ETH-LCK information

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: priority

Attribute Type: uint8

Default Value: 3

Attribute Range: 0-7

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>

```

```

<maintenance-domain>
  <md-name>DOMAIN_NAME</md-name>
  <config>
    <md-name>DOMAIN_NAME</md-name>
  </config>
  <maintenance-associations>
    <maintenance-association>
      <ma-name>MA_NAME</ma-name>
      <config>
        <ma-name>MA_NAME</ma-name>
      </config>
      <maintenance-end-points>
        <maintenance-end-point>
          <mep-id>1</mep-id>
          <config>
            <mep-id>1</mep-id>
          </config>
          <ethernet-locked-signal>
            <config>
              <priority>0</priority> <!-- operation="delete"-->
            </config>
          </ethernet-locked-signal>
        </maintenance-end-point>
      </maintenance-end-points>
    </maintenance-association>
  </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
frame priority <0-7>
```

Configure enable status

This attribute specifies whether ETH-AIS transmission is enabled

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-status

Attribute Type: uint8

Attribute Name: client-md-level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
    </maintenance-domain>
  </maintenance-domains>
</cfm>

```



```

<config>
  <md-name>DOMAIN_NAME</md-name>
</config>
<maintenance-associations>
  <maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
      <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
      <maintenance-end-point>
        <mep-id>1</mep-id>
        <config>
          <mep-id>1</mep-id>
        </config>
        <ethernet-alarm-indication-signal>
          <config>
            <client-md-level>0</client-md-level>
            </enable-status>
          </config>
        </ethernet-alarm-indication-signal>
      </maintenance-end-point>
    </maintenance-end-points>
  </maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ais status enable level <0-7>
```

Configure ma name

This attribute specifies the ETH-AIS transmission period

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: interval

Attribute Type: enum (1s|1min)

Default Value: 1s

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
    </maintenance-domain>
  </maintenance-domains>
</cfm>

```

```

<maintenance-associations>
  <maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
      <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
      <maintenance-end-point>
        <mep-id>1</mep-id>
        <config>
          <mep-id>1</mep-id>
        </config>
        <ethernet-alarm-indication-signal>
          <config>
            <interval>1s</interval> <!-- operation="delete"-->
          </config>
        </ethernet-alarm-indication-signal>
      </maintenance-end-point>
    </maintenance-end-points>
  </maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ais interval (1s|1min)
```

Configure enable lm responder

Enable the MEP to respond for each Loss Measurement Message(LMM)

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-lm-responder

Attribute Type: enum (lmm|slm)

Default Value: slm

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
    <maintenance-associations>
      <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>

```

```

        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
        <maintenance-end-point>
            <mep-id>1</mep-id>
            <config>
                <mep-id>1</mep-id>
            </config>
            <y1731-responders>
            <config>
                <enable-lm-responder>slm</enable-lm-responder> <!--
operation="delete"-->
            </config>
        </y1731-responders>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm loss-measurement reply (lmm|slm)
```

Configure enable dm responder

Enable the MEP to respond with Delay Measurement Reply(DMR) for each Delay Measurement Message(DMM) of the peer

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-dm-responder

Attribute Type: empty

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
    <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
        <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
        <maintenance-association>
          <ma-name>MA_NAME</ma-name>
          <config>
            <ma-name>MA_NAME</ma-name>
          </config>
          <maintenance-end-points>
            <maintenance-end-point>

```

```

        <mep-id>1</mep-id>
    <config>
        <mep-id>1</mep-id>
    </config>
    <y1731-responders>
    <config>
        </enable-dm-responder><!-- operation="delete"-->
    </config>
    </y1731-responders>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm delay-measurement reply dmm
```

Configure profile name

This attribute contains the profile name for the ETH-TST Session

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <ethernet-test-signal-profiles>
    <ethernet-test-signal-profile> <!-- operation="delete"-->
      <profile-name>WORD</profile-name>
    <config>
      <profile-name>WORD</profile-name>
    </config>
  </ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

Command Syntax

```
ethernet cfm test-signal profile-name WORD
```

Configure mode

This attribute indicates the MEP is acting in the role of a generator or receiver or both

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: mode

Attribute Type: enum (generator|receiver|both)

Default Value: receiver

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <mode>receiver</mode> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
mode (generator|receiver|both)
```

Configure test type

This attribute specifies whether it is service interrupting or not

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: test-type

Attribute Type: enum (in-service|out-of-service)

Default Value: in-service

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <test-type>in-service</test-type> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
test-type (in-service|out-of-service)
```

Configure frame size

This attribute specifies the ETH-Test Ethernet frame size.

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: frame-size

Attribute Type: enum (64|128|256|512|1024|1280|1518)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <frame-size>64</frame-size> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
frame-size (64|128|256|512|1024|1280|1518)
```

Configure pattern type

This attribute specifies an arbitrary element to include in the Data TLV

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: pattern-type

Attribute Type: enum (null-sig|prbs)

Default Value: null-sig

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <pattern-type>null-sig</pattern-type> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
pattern-type (null-sig|prbs)
```

Configure eir

Excess Information Rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware, Broadcom DNX (Q2) platform specific features

Attribute Name: eir

Attribute Type: uint64

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: eir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: eir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <excess-information-rate>
  <config>
    <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
    <eir-cos>0</eir-cos> <!-- operation="delete"-->
    <eir-dei>0</eir-dei> <!-- operation="delete"-->
    <eir>1</eir> <!-- operation="delete"-->
  </config>
</excess-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
eir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir

committed information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <committed-information-rate>
    <config>
      <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
      <cir-cos>0</cir-cos> <!-- operation="delete"-->
      <cir-dei>0</cir-dei> <!-- operation="delete"-->
      <cir>1</cir> <!-- operation="delete"-->
    </config>
  </committed-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

Command Syntax

```
cir <1-8000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir unit

committed information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
<committed-information-rate>
<config>
  <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
  <cir-cos>0</cir-cos> <!-- operation="delete"-->
  <cir-dei>0</cir-dei> <!-- operation="delete"-->
  <cir>1</cir> <!-- operation="delete"-->
</config>
</committed-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

Command Syntax

```
cir <1-19000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir cos

committed information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

```

</config>
<committed-information-rate>
<config>
  <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
  <cir-cos>0</cir-cos> <!-- operation="delete"-->
  <cir-dei>0</cir-dei> <!-- operation="delete"-->
  <cir>1</cir> <!-- operation="delete"-->
</config>
</committed-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

Command Syntax

```
cir <1-23000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir dei

committed information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <committed-information-rate>
  <config>
    <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
    <cir-cos>0</cir-cos> <!-- operation="delete"-->
    <cir-dei>0</cir-dei> <!-- operation="delete"-->
    <cir>1</cir> <!-- operation="delete"-->
  </config>

```

```

</committed-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>

```

Command Syntax

```
cir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure ethernet-loss-measurement-profiles profile-name

This attribute specifies the profile name for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile> <!-- operation="delete"-->
  <profile-name>WORD</profile-name>
</config>
  <profile-name>WORD</profile-name>
</config>
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>

```

Command Syntax

```
ethernet cfm loss-measurement profile-name WORD
```

Configure message period

This attribute specifies the message period for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
  <profile-name>WORD</profile-name>
</config>
  <profile-name>WORD</profile-name>

```

```
</config>
  <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (100ms|1s|10s)
```

Configure measurement type

This attribute specifies the measurement type for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-type

Attribute Type: enum (lmm|slm|ccm)

Default Value: slm

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <measurement-type>slm</measurement-type> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-type (lmm|slm|ccm)
```

Configure measurement interval

This attribute specifies the measurement interval for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-interval

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-525600

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
```

```

    <profile-name>WORD</profile-name>
  </config>
  <profile-name>WORD</profile-name>
</config>
  <measurement-interval>1</measurement-interval> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>

```

Command Syntax

```
measurement-interval <1-525600>
```

Configure ethernet-loss-measurement-profile message-period

This attribute specifies the message period for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```

<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <ethernet-loss-measurement-profiles>
  <ethernet-loss-measurement-profile>
    <profile-name>WORD</profile-name>
    <config>
      <profile-name>WORD</profile-name>
    </config>
    <message-period>1s</message-period> <!-- operation="delete"-->
  </ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>

```

Command Syntax

```
message-period (3ms|10ms|100ms|1s|10s|1min|10min)
```

Configure intervals stored

This attribute specifies the stored interval for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: intervals-stored

Attribute Type: uint16

Default Value: 32

Attribute Range: 2-1000

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <intervals-stored>2</intervals-stored> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
intervals-stored <2-1000>
```

Configure ethernet-delay-measurement-profiles profile-name

This attribute contains the profile name for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile> <!-- operation="delete"-->
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
ethernet cfm delay-measurement profile-name WORD
```

Configure ethernet-delay-measurement-profile message-period

This attribute specifies the message period for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (100ms|1s|10s)
```

Configure ethernet-delay-measurement-profile measurement-interval

This attribute specifies the measurement interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-1440

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
    <measurement-interval>1</measurement-interval> <!-- operation="delete"-->
  </config>
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-interval <1-1440>
```

Configure ethernet-delay-measurement-profile intervals-stored

This attribute specifies the intervals stored for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: intervals-stored

Attribute Type: uint16

Default Value: 32

Attribute Range: 2-1000

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <intervals-stored>2</intervals-stored> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
intervals-stored <2-1000>
```

Configure bins per fd interval

This attribute specifies the bins per fd interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bins-per-fd-interval

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-10

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <bins-per-fd-interval>2</bins-per-fd-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
bins-per-fd-interval <2-10>
```

Configure bins per ifdv interval

This attribute specifies the bins per ifdv interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bins-per-ifdv-interval

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <bins-per-ifdv-interval>2</bins-per-ifdv-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
bins-per-ifdv-interval <2-10>
```

Configure bin number

This object specifies the bin number for the configured boundary

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bin-number

Attribute Type: uint8

Attribute Range: 2-10

Attribute Name: threshold

Attribute Type: uint32

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
  <profile-name>WORD</profile-name>
  <config>
    <profile-name>WORD</profile-name>
  </config>
  <bin-thresholds>
```

```

    <bin-threshold> <!-- operation="delete"-->
      <bin-number>2</bin-number>
      <config>
        <bin-number>2</bin-number>
        <type>frame-delay</type>
        <threshold>1</threshold>
      </config>
      <type>frame-delay</type>
    </bin-threshold>
  </bin-thresholds>
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>

```

Command Syntax

```
bin-type (frame-delay|inter-frame-delay-variation) bin <2-10> threshold <1-4294967294>
```

abort test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191>

Attribute Name: domain-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-abort-eth-test-signal xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <domain-name>DOMAIN_NAME</domain-name>
  <ma-name>MA_NAME</ma-name>
  <mep-id>1</mep-id>
</ipi-cfm-y1731_cfm-l2-abort-eth-test-signal>

```

Command Syntax

```
abort test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191>
```

test-signal start-time (relative) <0-4294967295> stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <start-time-type>relative</start-time-type>
  <start-time>0</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>0</stop-time>
  <profile-name>WORD</profile-name>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
  <mep-id>1</mep-id>
  <test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-relative>
```

Command Syntax

```
test-signal start-time (relative) <0-4294967295> stop-time (relative) <0-
4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191>
target (mac-address MAC|<1-8191>)
```

test-signal start-time (absolute) START-TIME stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>0</stop-time>
  <profile-name>WORD</profile-name>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
  <mep-id>1</mep-id>
  <test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-relative>
```

Command Syntax

```
test-signal start-time (absolute) START-TIME stop-time (relative) <0-4294967295>
  tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-
  address MAC|<1-8191>)
```

test-signal start-time (relative) <0-4294967295> stop-time (absolute) STOP-TIME tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <start-time-type>relative</start-time-type>
  <start-time>0</start-time>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <profile-name>WORD</profile-name>
```

```

<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
<mep-id>1</mep-id>
<test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-absolute>

```

Command Syntax

```

test-signal start-time (relative) <0-4294967295> stop-time (absolute) STOP-TIME
tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-
address MAC|<1-8191>)

```

**test-signal start-time (absolute) START-TIME stop-time (absolute) STOP-TIME
tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191>
target (mac-address MAC|<1-8191>)**

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <start-time-type>absolute</start-time-type>

```

```

<start-time>START-TIME</start-time>
<stop-time-type>absolute</stop-time-type>
<stop-time>STOP-TIME</stop-time>
<profile-name>WORD</profile-name>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
<mep-id>1</mep-id>
<test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-absolute>

```

Command Syntax

```

test-signal start-time (absolute) START-TIME stop-time (absolute) STOP-TIME tst-
  profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address
  MAC|<1-8191>)

```

loss-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-lm-start-proactive xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-start-proactive>

```

Command Syntax

```
loss-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>)
  mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-none>
```


Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep
  <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>relative</stop-time-type>
```

```

<stop-time>STOP-TIME</stop-time>
<repetition-period>6000</repetition-period>
<mep-id>1</mep-id>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-relative>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-
  4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-none>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (none) repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-relative>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-absolute>
```

Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
```

```
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-none>
```

Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (absolute) START-TIME stop-time (none) repetition-period <6000-
  4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-relative>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

      <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
      <profile-name>WORD</profile-name>
      <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
      <start-time-type>absolute</start-time-type>
      <start-time>START-TIME</start-time>
      <stop-time-type>absolute</stop-time-type>
      <stop-time>STOP-TIME</stop-time>
      <repetition-period>6000</repetition-period>
      <mep-id>1</mep-id>
      <md-name>DOMAIN_NAME</md-name>
      <ma-name>MA_NAME</ma-name>
    </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute>

```

Command Syntax

```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

abort loss-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

      <ipi-cfm-y1731_cfm-l2-abort-eth-lm-test xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
      <mep-id>1</mep-id>
      <md-name>DOMAIN_NAME</md-name>

```

```
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-abort-eth-lm-test>
```

Command Syntax

```
abort loss-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm loss-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-lm-history-stats xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-lm-history-stats>
```

Command Syntax

```
clear ethernet cfm loss-measurement history mep <1-8191> domain DOMAIN_NAME ma
MA_NAME
```

delay-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-start-proactive xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-start-proactive>

```

Command Syntax

```

delay-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>)
mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-none>
```

Command Syntax

```
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep
<1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>relative</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-relative>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>immediate</start-time-type>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-none>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (none) repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-

TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
```

```
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-relative>
```

Command Syntax

```
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>relative</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-absolute>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>none</stop-time-type>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-none>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (absolute) START-TIME stop-time (none) repetition-period <6000-
4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```

<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>relative</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-relative>

```

Command Syntax

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <profile-name>WORD</profile-name>
  <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
  <start-time-type>absolute</start-time-type>
  <start-time>START-TIME</start-time>
  <stop-time-type>absolute</stop-time-type>
  <stop-time>STOP-TIME</stop-time>
  <repetition-period>6000</repetition-period>
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute>
```

Command Syntax

```
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period
<6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

abort delay-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-abort-eth-dm-test xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-abort-eth-dm-test>
```

Command Syntax

```
abort delay-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm delay-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-dm-history-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
```

```
</ipi-cfm-y1731_cfm-l2-clear-eth-dm-history-stats>
```

Command Syntax

```
clear ethernet cfm delay-measurement history mep <1-8191> domain DOMAIN_NAME ma
MA_NAME
```

clear ethernet cfm statistics csf mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-csf-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-csf-stats>
```

Command Syntax

```
clear ethernet cfm statistics csf mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics bn mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-bn-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-bn-stats>
```

Command Syntax

```
clear ethernet cfm statistics bn mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics lck mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-lck-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <mep-id>1</mep-id>
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-lck-stats>
```

Command Syntax

```
clear ethernet cfm statistics lck mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191> stats (gtf|ctf)

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: stats-type

Attribute Type: enum (gtf|ctf)

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-test-signal-stats xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <md-name>DOMAIN_NAME</md-name>
  <ma-name>MA_NAME</ma-name>
  <mep-id>1</mep-id>
  <stats-type>gtf</stats-type>
</ipi-cfm-y1731_cfm-l2-clear-eth-test-signal-stats>
```

Command Syntax

```
clear ethernet cfm statistics test-signal domain DOMAIN_NAME ma MA_NAME mep <1-
8191> stats (gtf|ctf)
```

IPI-UDLD

Configure enable

Use this attribute to enable UDLD

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
  <global>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </global>
</udld>
```

Command Syntax

```
udld enable
```

Configure message time

Use this attribute to set UDLD message interval value

Attribute Name: message-time

Attribute Type: uint8

Attribute Range: 7-90

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
  <global>
    <config>
      <message-time>7</message-time> <!-- operation="delete"-->
    </config>
  </global>
</udld>
```

Command Syntax

```
udld message-time <7-90>
```

Configure options

Use this attribute to enable or disable UDLD debugging at various levels

Attribute Name: options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
  <debug>
    <config>
      <options>event</options> <!-- operation="delete"-->
    </config>
  </debug>
</udld>
```

Command Syntax

```
debug udld (event|packet|timer|nsm|hal|all)
```

Configure mode

Use this attribute to configure UDLD mode for an interface

Attribute Name: mode

Attribute Type: enum (normal|aggressive)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mode>normal</mode> <!-- operation="delete"-->
    </interface>
  </interfaces>
</udld>
```

```
</interfaces>
</udld>
```

Command Syntax

```
udld mode (normal|aggressive)
```

Configure administrative state

Use this attribute configure UDLD administrative state for an interface

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
  <administrative-state>disable</administrative-state> <!-- operation="delete"-->
</interface>
</interfaces>
</udld>
```

Command Syntax

```
udld state (disable|enable)
```

debug udld (event|packet|timer|nsm|hal|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf RPC payload

```
<udld-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<terminal-debug-options>event</terminal-debug-options>
</udld-terminal-debug-on>
```

Command Syntax

```
debug udld (event|packet|timer|nsm|hal|all)
```

no debug udld (event|packet|timer|nsm|hal|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf RPC payload

```
<udld-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<terminal-debug-options>event</terminal-debug-options>
</udld-terminal-debug-off>
```

Command Syntax

```
no debug udld (event|packet|timer|nsm|hal|all)
```

IPI-PTP

Configure instance type

PTP instance type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: instance-type

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: profile

Attribute Type: enum (g8265.1|g8275.1|g8275.2|e2e-transparent|default|smpte)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance> <!-- operation="delete"-->
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
    <profile>g8265.1</profile>
  </config>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
ptp clock <0-1> profile (g8265.1|g8275.1|g8275.2|e2e-transparent|default|smpte)
```

Configure color frame

setting color-frame

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature, Precision Time Protocol (PTP) feature

Attribute Name: color-frame

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
sm-tlv time-address-flags color-frame
```

Configure drop frame

setting drop-frame

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature, Precision Time Protocol (PTP) feature

Attribute Name: drop-frame

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
sm-tlv time-address-flags drop-frame
```

Configure denominator

Setting denominator for the default system frame rate

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature, Precision Time Protocol (PTP) feature

Attribute Name: denominator

Attribute Type: uint32

Attribute Name: numerator

Attribute Type: uint32

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <tlv>
    <config>
      <numerator>0</numerator>
      <denominator>0</denominator>
    </config>
  </tlv>
</ptp>
```

Command Syntax

```
sm-tlv default-frame-rates <0-4294967295> <0-4294967295>
```

Configure number ports

Number of ports

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: number-ports

Attribute Type: uint8

Default Value: 1

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>
```

```

    </config>
  <default-data-set>
    <config>
      <number-ports>1</number-ports> <!-- operation="delete"-->
    </config>
  </default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
number-ports <1-31>
```

Configure default-data-set number-ports

Number of ports

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: number-ports

Attribute Type: uint8

Default Value: 1

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        <number-ports>1</number-ports> <!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
number-ports <1-128>
```

Configure l2 pkt forward

l2-pkt-forward

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: l2-pkt-forward

Attribute Type: empty

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
l2-pkt-forward
```

Configure domain

The domain number of the current domain

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: domain

Attribute Type: uint8

Default Value: 24

Attribute Range: 0-127

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
domain <0-127>
```

Configure servo config

servo config

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: servo-config

Attribute Type: enum (fts|fts-no-synce)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        <servo-config>fts</servo-config> <!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
servo (fts|fts-no-synce)
```

Configure external clock holdover duration

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-clock-holdover-duration

Attribute Type: uint16

Default Value: 120

Attribute Range: 0-10080

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
```

```

        <external-clock-holdover-duration>0</external-clock-holdover-duration> <!--
operation="delete"-->
    </config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
holdover <0-10080>
```

Configure system clock sync

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: system-clock-sync

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-600

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <default-data-set>
    <config>
      <system-clock-sync>5</system-clock-sync> <!-- operation="delete"-->
    </config>
  </default-data-set>
</ptp>

```

Command Syntax

```
system-clock-sync (<5-600>|)
```

Configure ptp clock sync

Initialise ptp clock from operating system clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ptp-clock-sync

Attribute Type: empty

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
ptp-clock-sync
```

Configure ptsf wtr duration

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ptsf-wtr-duration

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1440

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
        <ptsf-wtr-duration>1</ptsf-wtr-duration> <!-- operation="delete"-->
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
ptsf-wait-to-restore <1-1440>
```

Configure g8265p1 wtr duration

g8265.1 master wtr

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: g8265p1-wtr-duration

Attribute Type: uint64

Default Value: 0

Attribute Range: 0-3600

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        <g8265p1-wtr-duration>0</g8265p1-wtr-duration> <!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
g8265.1-wtr <0-3600>
```

Configure g8265p1 option

g8265.1 option

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: g8265p1-option

Attribute Type: enum (1|2)

Default Value: 1

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
```

```

<config>
  <g8265p1-option>1</g8265p1-option> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
g8265.1-option (1|2)
```

Configure reserved vlan base

Reserved vlan base index

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: reserved-vlan-base

Attribute Type: uint16

Default Value: 4064

Attribute Range: 1-4064

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <default-data-set>
    <config>
      <reserved-vlan-base>1</reserved-vlan-base> <!-- operation="delete"-->
    </config>
  </default-data-set>
</ptp>

```

Command Syntax

```
reserved-vlan-base-id <1-4064>
```

Configure two step

two step

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: two-step

Attribute Type: empty

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
two-step
```

Configure clock type tgm

clock type as tgm

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-type-tgm

Attribute Type: enum (tgm)

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
clock-type (tgm)
```

Configure one way

For G.8265.1 one-way ptp

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: one-way

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        </one-way><!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

one-way

Configure pps pulse offset

1pps Out Pulse Offset in nanoseconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: pps-pulse-offset

Attribute Type: int16

Default Value: 0

Attribute Range: -2048-2048

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
```



```

        <pps-pulse-offset>-2048</pps-pulse-offset> <!-- operation="delete"-->
    </config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
lpps-out offset <-2048-2048>
```

Configure pps in smx tod type

1pps in SMX tod type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: pps-in-smx-tod-type

Attribute Type: enum (smx|tod)

Default Value: tod

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <default-data-set>
    <config>
      <pps-in-smx-tod-type>tod</pps-in-smx-tod-type> <!-- operation="delete"-->
    </config>
  </default-data-set>
</ptp>

```

Command Syntax

```
lpps-in (smx|tod)
```

Configure priority 1

The priority1 attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: priority-1

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
priority1 <0-255>
```

Configure priority 2

The priority2 attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: priority-2

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
priority2 <0-255>
```

Configure slave only

When set the clock is a slave-only clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: slave-only

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        </slave-only><!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
slave-only
```

Configure local priority

The local priority attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: local-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
```

```

        <local-priority>1</local-priority> <!-- operation="delete"-->
    </config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
local-priority <1-255>
```

Configure max steps removed

The maximum number of communication paths between the local clock and the grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: max-steps-removed

Attribute Type: uint8

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
      <config>
        <max-steps-removed>1</max-steps-removed> <!-- operation="delete"-->
      </config>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
max-steps-removed <1-255>
```

Configure start boundary hops

The maximum number of communication paths between the local clock and the grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: start-boundary-hops

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>
```

Command Syntax

```
start-boundary-hops <0-255>
```

Configure servo history interval

PTP servo history interval

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: servo-history-interval

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: servo-history-enabled

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
        <servo-history>
          <config>
            </servo-history-enabled>
            <servo-history-interval>1</servo-history-interval>
          </config>
        </servo-history>
      </config>
    </ptp-instance>
  </ptp-instances>
</ptp>
```

```
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
servo-history <1-60>
```

Configure clock class

The clock-class denotes the traceability of the time or frequency distributed by the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-class

Attribute Type: uint8

Default Value: 248

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <default-data-set>
    <clock-quality>
      <config>
        <clock-class>0</clock-class> <!-- operation="delete"-->
      </config>
    </clock-quality>
  </default-data-set>
</ptp>
```

Command Syntax

```
clock-class <0-255>
```

Configure clock accuracy

The clock-accuracy indicates the expected accuracy of the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-accuracy

Attribute Type: uint8

Default Value: 254

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
    <clock-quality>
    <config>
      <clock-accuracy>0</clock-accuracy> <!-- operation="delete"-->
    </config>
    </clock-quality>
    </default-data-set>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-accuracy <0-255>
```

Configure offset scaled log variance

The offset-scaled-log-variance provides an estimate of the variations of the clock from a linear timescale when it is not synchronized to another clock using the protocol

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-scaled-log-variance

Attribute Type: uint16

Default Value: 65535

Attribute Range: 0-65535

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <default-data-set>
    <clock-quality>
    <config>
      <offset-scaled-log-variance>0</offset-scaled-log-variance> <!--
operation="delete"-->
    </config>
```

```

</clock-quality>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
offset-log-variance <0-65535>
```

Configure offset nano seconds

GPS offset in ns

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-nano-seconds

Attribute Type: int16

Attribute Range: -2048-2048

Attribute Name: offset-seconds

Attribute Type: int8

Attribute Range: -100-100

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
        </config>
      <default-data-set>
        <gps-offset>
          <config>
            <offset-seconds>-100</offset-seconds>
            <offset-nano-seconds>-2048</offset-nano-seconds>
          </config>
        </gps-offset>
      </default-data-set>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

Command Syntax

```
gps-offset { sec <-100-100>| nsec <-2048-2048> }
```

Configure port number

PTP port clock number. Default value is 1.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: port-number

Attribute Type: uint16

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port> <!-- operation="delete"-->
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
clock-port <1-31>
```

Configure ports port-number

PTP port clock number. Default value is 1.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: port-number

Attribute Type: uint16

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port> <!-- operation="delete"-->
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```

```
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-port <1-128>
```

Configure port local-priority

The local priority attribute of the PTP port clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: local-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
        <local-priority>1</local-priority> <!-- operation="delete"-->
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
local-priority <1-255>
```

Configure description

This parameter is used to set port clock description

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <description>LINE</description> <!-- operation="delete"-->
    </port>
  </ports>
</ptp>
```

Command Syntax

```
description LINE
```

Configure transport type

Set transport type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: transport-type

Attribute Type: enum (ipv4|ipv6|ipv4-multicast|ipv6-multicast)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```

```

        <transport-type>ipv4</transport-type> <!-- operation="delete"-->
    </port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
transport (ipv4|ipv6|ipv4-multicast|ipv6-multicast)
```

Configure transport v6 multicast type

Set transport type Ipv6 multicast

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: transport-v6-multicast-type

Attribute Type: enum (site-local|interface-local|link-local|admin-local|organization-local|global-local)

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <transport-v6-multicast-type>site-local</transport-v6-multicast-type> <!--
operation="delete"-->
      </port>
    </ports>
  </ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
transport ipv6-multicast type (site-local|interface-local|link-local|admin-
local|organization-local|global-local)
```

Configure non forwardable mac addr

Set dst mac as non forwardable mac 01:80:C2:00:00:0E

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: non-forwardable-mac-addr

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
        </non-forwardable-mac-addr><!-- operation="delete"-->
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
multicast-dst-mac non-forwardable
```

Configure log min delay req interval

The base-two logarithm of the minDelayReqInterval (the minimum permitted mean time interval between successive Delay_Req messages)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-min-delay-req-interval

Attribute Type: int8

Default Value: -6

Attribute Range: -7-5

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
```

```

        <port-number>1</port-number>
    </config>
    <log-min-delay-req-interval>-7</log-min-delay-req-interval> <!--
operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
log-min-delay-req-interval <-7-5>
```

Configure log announce interval

The base-two logarithm of the mean announceInterval (mean time interval between successive Announce messages)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-announce-interval

Attribute Type: int8

Default Value: -3

Attribute Range: -3-4

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
        <log-announce-interval>-3</log-announce-interval> <!-- operation="delete"-->
      </config>
    </port>
  </ports>
</ptp>

```

Command Syntax

```
log-announce-interval <-3-4>
```

Configure announce receipt timeout

The number of announceInterval that have to pass without receipt of an Announce message before the occurrence of the event ANNOUNCE_RECEIPT_TIMEOUT_EXPIRES

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: announce-receipt-timeout

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-10

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instances>
    <ntp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <announce-receipt-timeout>2</announce-receipt-timeout> <!--
operation="delete"-->
      </port>
    </ports>
  </ntp-instance>
</ntp-instances>
</ntp>
```

Command Syntax

```
announce-receipt-timeout <2-10>
```

Configure log sync interval

The base-two logarithm of the mean SyncInterval for multicast messages

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-sync-interval

Attribute Type: int8

Default Value: -6

Attribute Range: -7-4

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
```

```

<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ports>
<port>
  <port-number>1</port-number>
  <config>
    <port-number>1</port-number>
    <log-sync-interval>-7</log-sync-interval> <!-- operation="delete"-->
  </port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
log-sync-interval <-7-4>
```

Configure time to live

The ttl value for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: time-to-live

Attribute Type: uint8

Default Value: 64

Attribute Range: 1-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ports>
<port>
  <port-number>1</port-number>
  <config>
    <port-number>1</port-number>
    <time-to-live>1</time-to-live> <!-- operation="delete"-->
  </port>
</ports>

```



```
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
t1 <1-255>
```

Configure ip dscp

The ip-dscp value for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ip-dscp

Attribute Type: uint8

Default Value: 56

Attribute Range: 0-63

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
        <ip-dscp>0</ip-dscp> <!-- operation="delete"-->
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
dscp <0-63>
```

Configure unicast grant duration

Unicast grant duration field in signalling messages

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: unicast-grant-duration

Attribute Type: uint16

Default Value: 300

Attribute Range: 60-1000

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <unicast-grant-duration>60</unicast-grant-duration> <!-- operation="delete"-->
      </port>
    </ports>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
unicast-grant-duration <60-1000>
```

Configure master only

When set the port is a master-only port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-only

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
      </port>
    </ports>
  </ptp-instance>
</ptp-instances>
</ptp>
```

```

    </config>
    </master-only><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
master-only
```

Configure grandmaster priority 2

The priority2 denotes priority2 attribute of grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: grandmaster-priority-2

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
grandmaster-priority2 <0-255>
```

Configure append

Appending TLV

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: append

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
sm-tlv append disable
```

Configure process

Processing TLV

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: process

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```

```

    </config>
    </process><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
sm-tlv process disable
```

Configure source ipv6 link local address

When set the clock source address is a linklocal address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-link-local-address

Attribute Type: empty

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
source-address ipv6 linklocal
```

Configure source ipv6 interface address

When set the clock source address as ipv6

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-interface-address

Attribute Type: string

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instances>
    <ntp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ntp-instance>
  </ntp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <source-ipv6-interface-address>IFNAME</source-ipv6-interface-address> <!--
operation="delete"-->
    </port>
  </ports>
</ntp-instance>
</ntp-instances>
</ntp>
```

Command Syntax

```
source-address ipv6 interface IFNAME
```

Configure source ipv4 interface address

When set the clock source address as ipv4

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv4-interface-address

Attribute Type: string

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instances>
    <ntp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ntp-instance>
  </ntp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ntp>
```

```

        <source-ipv4-interface-address>IFNAME</source-ipv4-interface-address> <!--
operation="delete"-->
    </port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
source-address ipv4 interface IFNAME
```

Configure source ipv6 address

set the absolute source address as ipv6 for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <source-ipv6-address>X:X::X:X</source-ipv6-address> <!-- operation="delete"--
>
      </port>
    </ports>
  </ptp-instances>
</ptp>

```

Command Syntax

```
source-address ipv6 address X:X::X:X
```

Configure source ipv4 address

set the absolute source address as ipv4 for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
        <source-ipv4-address>A.B.C.D</source-ipv4-address> <!-- operation="delete"-->
      </config>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
source-address ipv4 address A.B.C.D
```

Configure clock-quality clock-class

The clock-class denotes the traceability of the time or frequency distributed by the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-class

Attribute Type: uint8

Default Value: 6

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
</ptp>
```



```

    </config>
    <clock-quality>
    <config>
        <clock-class>0</clock-class> <!-- operation="delete"-->
    </config>
</clock-quality>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
clock-class <0-255>
```

Configure clock-quality clock-accuracy

The clock-accuracy indicates the expected accuracy of the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-accuracy

Attribute Type: uint8

Default Value: 33

Attribute Range: 0-255

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
    <instance-type>0</instance-type>
    <config>
        <instance-type>0</instance-type>
    </config>
</ptp-instance>
</ptp-instances>
<ports>
<port>
    <port-number>1</port-number>
    <config>
        <port-number>1</port-number>
    </config>
    <clock-quality>
    <config>
        <clock-accuracy>0</clock-accuracy> <!-- operation="delete"-->
    </config>
</clock-quality>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
clock-accuracy <0-255>
```

Configure clock-quality offset-scaled-log-variance

The offset-scaled-log-variance provides an estimate of the variations of the clock from a linear timescale when it is not synchronized to another clock using the protocol

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-scaled-log-variance

Attribute Type: uint16

Default Value: 20061

Attribute Range: 0-65535

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <clock-quality>
        <config>
          <offset-scaled-log-variance>0</offset-scaled-log-variance> <!--
operation="delete"-->
        </config>
      </clock-quality>
    </port>
  </ports>
</ptp>
```

Command Syntax

```
offset-log-variance <0-65535>
```

Configure delay asymmetry nsec

Set delay-asymmetry in nanoseconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: delay-asymmetry-nsec

Attribute Type: int32

Attribute Range: -1000000-1000000

Attribute Name: delay-asymmetry-msec

Attribute Type: int8

Attribute Range: -100-100

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <asymmetry-delay>
          <config>
            <delay-asymmetry-msec>-100</delay-asymmetry-msec>
            <delay-asymmetry-nsec>-1000000</delay-asymmetry-nsec>
          </config>
        </asymmetry-delay>
      </port>
    </ports>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
delay-asymmetry (msec <-100-100>|) (nsec <-1000000-1000000>|)
```

Configure network interface

Reference to the configured underlying interface that is used by this PTP Port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: network-interface

Attribute Type: union

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
```

```

    <config>
      <instance-type>0</instance-type>
    </config>
  </ports>
  <port>
    <port-number>1</port-number>
    <config>
      <port-number>1</port-number>
    </config>
    <network-interfaces>
      <network-interface> <!-- operation="delete"-->
        <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
        <config>
          <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
        </config>
      </network-interface>
    </network-interfaces>
  </port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
network-interface (IFNAME|gps|prc)
```

Configure vlan physical interface name

Reference to the configured underlying interface that is used by this vlan interface PTP Port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-physical-interface-name

Attribute Type: string

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <network-interfaces>
        <network-interface>

```

```

    <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
    <config>
      <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
    </config>
    <vlan-physical-interface-name>IFNAME</vlan-physical-interface-name> <!--
operation="delete"-->
  </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
network-interface port IFNAME
```

Configure vlan physical dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-physical-dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: vlan-physical-interface-name

Attribute Type: string

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
  <network-interfaces>
    <network-interface>
      <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
      <config>

```

```

        <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
        <vlan-physical-interface-name>IFNAME</vlan-physical-interface-name> <!--
operation="delete"-->
    </config>
        <vlan-physical-dot1q-vlan-id>1</vlan-physical-dot1q-vlan-id> <!--
operation="delete"-->
    </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
network-interface port IFNAME (dot1q <1-4095>|)
```

Configure dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
    </port>
  </ports>
  <network-interfaces>
    <network-interface>
      <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
      <config>
        <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
      </config>
      <dot1q-vlan-id>1</dot1q-vlan-id> <!-- operation="delete"-->
    </network-interface>
  </network-interfaces>
</ptp>

```

```

    </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
network-interface dot1q <1-4095>
```

Configure inner dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: inner-dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: dot1ad-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
  <instance-type>0</instance-type>
  <config>
    <instance-type>0</instance-type>
  </config>
</ptp-instance>
</ptp-instances>
<ports>
<port>
  <port-number>1</port-number>
  <config>
    <port-number>1</port-number>
  </config>
</port>
</ports>
<network-interfaces>
<network-interface>
  <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
  <config>
    <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
    <dot1ad-vlan-id>1</dot1ad-vlan-id> <!-- operation="delete"-->
  </config>
  <inner-dot1q-vlan-id>1</inner-dot1q-vlan-id> <!-- operation="delete"-->

```

```

    </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
network-interface dot1ad <1-4095> (inner-dot1q <1-4095>|)
```

Configure master clock source ipv4 address

Set master clock ipv4 source address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-clock-source-ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <master-ipv4-addresses>
        <master-ipv4-address> <!-- operation="delete"-->
          <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-address>
        </master-ipv4-address>
      </master-ipv4-addresses>
    </port>
  </ports>
</ptp>

```

Command Syntax

```
master ipv4 A.B.C.D
```

Configure master ipv4 address priority

Set master clock IPv4 source address priority

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-ipv4-address-priority

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    <ports>
      <port>
        <port-number>1</port-number>
        <config>
          <port-number>1</port-number>
        </config>
        <master-ipv4-addresses>
          <master-ipv4-address>
            <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-address>
            <config>
              <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-
address>
            </config>
            <master-ipv4-address-priority>0</master-ipv4-address-priority> <!--
operation="delete"-->
          </master-ipv4-address>
        </master-ipv4-addresses>
      </port>
    </ports>
  </ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
master ipv4 A.B.C.D priority <0-15>
```

Configure master clock source ipv6 address

Set master clock IPv6 source address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-clock-source-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instances>
    <ntp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ntp-instance>
  </ntp-instances>
  <ports>
    <port>
      <port-number>1</port-number>
      <config>
        <port-number>1</port-number>
      </config>
      <master-ipv6-addresses>
        <master-ipv6-address> <!-- operation="delete"-->
          <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-address>
          <config>
            <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-
address>
          </config>
        </master-ipv6-address>
      </master-ipv6-addresses>
    </port>
  </ports>
</ntp-instance>
</ntp-instances>
</ntp>
```

Command Syntax

```
master ipv6 X:X::X:X
```

Configure master ipv6 address priority

Set master clock IPv6 source address priority

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-ipv6-address-priority

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instances>
    <ntp-instance>
      <instance-type>0</instance-type>
      <config>
```

```

        <instance-type>0</instance-type>
    </config>
</ports>
<port>
    <port-number>1</port-number>
    <config>
        <port-number>1</port-number>
    </config>
    <master-ipv6-addresses>
    <master-ipv6-address>
        <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-address>
    <config>
        <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-
address>
    </config>
        <master-ipv6-address-priority>0</master-ipv6-address-priority> <!--
operation="delete"-->
    </master-ipv6-address>
</master-ipv6-addresses>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>

```

Command Syntax

```
master ipv6 X:X::X:X priority <0-15>
```

Configure io type

Type of tod input/output. Default: output

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: io-type

Attribute Type: enum (input|output)

Netconf edit-config payload

```

<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
      <time-of-day>
      <config>
        <io-type>input</io-type> <!-- operation="delete"-->
      </config>
      </time-of-day>
    </ptp-instance>
  </ptp-instances>
</ptp>

```

```
</ptp-instances>
</ptp>
```

Command Syntax

```
tod (input|output)
```

Configure utc date

UTC date when applying leap seconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: utc-date

Attribute Type: string

Attribute Name: offset-seconds

Attribute Type: uint8

Attribute Range: 0-99

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <utc-offset-dates>
    <utc-offset-date> <!-- operation="delete"-->
      <utc-date>YYYY-MM-DD</utc-date>
      <config>
        <utc-date>WORD</utc-date>
        <offset-seconds>0</offset-seconds>
      </config>
    </utc-offset-date>
  </utc-offset-dates>
</ptp>
```

Command Syntax

```
utc-offset date YYYY-MM-DD <0-99>
```

Configure baseline seconds

UTC leap seconds baseline

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: baseline-seconds

Attribute Type: uint8

Attribute Range: 0-99

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <ptp-instances>
    <ptp-instance>
      <instance-type>0</instance-type>
      <config>
        <instance-type>0</instance-type>
      </config>
    </ptp-instance>
  </ptp-instances>
  <utc-offset-dates>
    <baseline>
      <config>
        <baseline-seconds>0</baseline-seconds> <!-- operation="delete"-->
      </config>
    </baseline>
  </utc-offset-dates>
</ptp>
```

Command Syntax

```
utc-offset baseline <0-99>
```

Configure enable

Use this attribute to debug the ptp process.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <debug>
    <config>
      </enable><!-- operation="delete"-->
    </config>
  </debug>
</ptp>
```

Command Syntax

```
debug ptp
```

Configure hw timestamp

Use this attribute to set the Hardware timestamp

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hw-timestamp

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <interfaces>
    <interface>
      <interface-name>IFNAME</interface-name>
      <config>
        <interface-name>WORD</interface-name>
      </config>
      </hw-timestamp><!-- operation="delete"-->
    </interface>
  </interfaces>
</ptp>
```

Command Syntax

hw-timestamp

clear ptp clock <0-1> stats

Attribute Name: clear-clock

Attribute Type: uint8

Attribute Range: 0-1

Netconf RPC payload

```
<ptp-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
  <clear-clock>0</clear-clock>
</ptp-clear-statistics>
```

Command Syntax

clear ptp clock <0-1> stats

debug ptp

Netconf RPC payload

```
<ptp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp"/>
```

Command Syntax

debug ptp

no debug ptp

Netconf RPC payload

```
<ptp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp"/>
```

Command Syntax

```
no debug ptp
```

IPI-EVPN-MPLS

Configure enable evpn mpls

Use this attribute to enable EVPN-MPLS module. Without this attribute evpn mpls functionality can not be achieved

Attribute Name: enable-evpn-mpls

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <global>
    <config>
      </enable-evpn-mpls>
    </config>
  </global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls enable
```

Configure vtep ipv4

Use this attribute to set source vtep global ip address. This will be treated at evpn mpls tunnel source address

Attribute Name: vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <global>
    <config>
      <vtep-ipv4>A.B.C.D</vtep-ipv4> <!-- operation="delete"-->
    </config>
  </global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls vtep-ip-global A.B.C.D
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Attribute Range: 10-572

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <global>
    <config>
      <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
    </config>
  </global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls mac-ageing-time <10-572>
```

Configure arp nd refresh time

Use this attribute to configure aging out the arp-cache and nd-cache entries

Attribute Name: arp-nd-refresh-time

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <arp-nd-global>
    <config>
      <arp-nd-refresh-time>3</arp-nd-refresh-time> <!-- operation="delete"-->
    </config>
  </arp-nd-global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls arp-nd refresh-timer <3-190>
```

Configure tenant identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant> <!-- operation="delete"-->
      <tenant-identifier>1</tenant-identifier>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```



```
        <tenant-identifier>1</tenant-identifier>
    </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215>
```

Configure vpws identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        <vpws-identifier>1</vpws-identifier>
      </config>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215> xconnect target-mpls-id <1-16777215>
```

Configure control word

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: control-word

Attribute Type: empty

Attribute Name: etree-leaf

Attribute Type: empty

Attribute Name: flow-label

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        </control-word>
        </etree-leaf>
        </flow-label>
      </config>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215> (control-word|) (etree-leaf|) (flow-label|)
```

Configure flow label

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: control-word

Attribute Type: empty

Attribute Name: flow-label

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        <vpws-identifier>1</vpws-identifier>
        </control-word>
      </config>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```

```

        </flow-label>
    </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>

```

Command Syntax

```

evpn mpls id <1-16777215> xconnect target-mpls-id <1-16777215> (control-word|)
(flow-label|)

```

Configure vrf name

Use this attribute to map vrf to carry EVPN routes

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```

<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <vrf-name>VRF-NAME</vrf-name> <!-- operation="delete"-->
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>

```

Command Syntax

```

host-reachability-protocol evpn-bgp VRF-NAME

```

Configure mac holdtime

Use this attribute to set the time a host mac entry will persist after unconfig

Attribute Name: mac-holdtime

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```

<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>

```

```

    <tenant-identifier>1</tenant-identifier>
  </config>
  <mac-holdtime>-1</mac-holdtime> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>

```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure route map

Use this attribute to set route-map.

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```

<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <route-map>WORD</route-map> <!-- operation="delete"-->
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>

```

Command Syntax

```
evpn-route-map WORD
```

Configure tenant description

Use this attribute to set evpn-mpls tenant identifier name

Attribute Name: tenant-description

Attribute Type: string

Netconf edit-config payload

```

<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
      </config>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>

```

```
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evi-name WORD
```

Configure tunnel policy name

Transport Tunnel Selection Policy

Attribute Name: tunnel-policy-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
  <tenant-identifier>1</tenant-identifier>
  <config>
    <tenant-identifier>1</tenant-identifier>
  </config>
  <tunnel-policy-name>WORD</tunnel-policy-name> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
tunnel-select-policy WORD
```

Configure irb name

Use this attribute to provide default gateway behavior on a VTEP for particular VNID.

Attribute Name: irb-name

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
  <tenant-identifier>1</tenant-identifier>
  <config>
    <tenant-identifier>1</tenant-identifier>
  </config>
  <irb-name>NAME</irb-name> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn irb NAME
```

Configure evi learning limit

Attach MAC learning limit profile for EVPN MPLS EVI

Attribute Name: evi-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <evi-learning-limit>PROFILENAME</evi-learning-limit> <!-- operation="delete"-->
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure irb advertise host route

Use this attribute to set advertise host to route

Attribute Name: irb-advertise-host-route

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <mpls-tenants>
    <mpls-tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <irb>
        <config>
          </irb-advertise-host-route><!-- operation="delete"-->
        </config>
      </irb>
    </mpls-tenant>
  </mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn irb-advertise-host-route
```

clear mac address-table dynamic evpn-mpls

Netconf RPC payload

```
<clear-nvo-mpls-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls"/>
```

Command Syntax

```
clear mac address-table dynamic evpn-mpls
```

clear mac address-table dynamic evpn-mpls evid <1-16777215> (address MACADDR|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
<clear-nvo-mpls-dynamic-mac-address-table-evid xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
  <tenant-identifier>1</tenant-identifier>
  <mac-address>MACADDR</mac-address>
</clear-nvo-mpls-dynamic-mac-address-table-evid>
```

Command Syntax

```
clear mac address-table dynamic evpn-mpls evid <1-16777215> (address MACADDR|)
```

clear evpn mpls counters (vpn-id <1-16777215>|) network (egress) (dst A.B.C.D|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: egress-direction

Attribute Type: enum (egress)

Attribute Name: destination-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-evpn-mpls-egress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-mpls">
  <tenant-identifier>1</tenant-identifier>
  <egress-direction>egress</egress-direction>
  <destination-ip>A.B.C.D</destination-ip>
</clear-evpn-mpls-egress-counters>
```

Command Syntax

```
clear evpn mpls counters (vpn-id <1-16777215>|) network (egress) (dst A.B.C.D|)
```

clear evpn mpls counters (vpn-id <1-16777215>|) network (ingress)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: ingress-direction

Attribute Type: enum (ingress)

Netconf RPC payload

```
<clear-evpn-mpls-ingress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-mpls">
  <tenant-identifier>1</tenant-identifier>
  <ingress-direction>ingress</ingress-direction>
</clear-evpn-mpls-ingress-counters>
```

Command Syntax

```
clear evpn mpls counters (vpn-id <1-16777215>|) network (ingress)
```

IPI-TWAMP

Configure enable

Enables TWAMP Light Control

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <light>
    <control>
      <config>
        </enable>
      </config>
    </control>
```



```
</light>  
</twamp>
```

Command Syntax

```
twamp-light control
```

Configure administrative state

Sets TWAMP Light Control administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">  
  <light>  
    <control>  
      <config>  
        <administrative-state>disable</administrative-state> <!-- operation="delete"-->  
      </config>  
    </control>  
  </light>  
</twamp>
```

Command Syntax

```
control-admin-state (disable|enable)
```

Configure vrf name

Use this attribute to set the session VRF name

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: sender-ip-address

Attribute Type: union

Attribute Name: sender-udp-port

Attribute Type: union

Attribute Name: reflector-ip-address

Attribute Type: union

Attribute Name: reflector-udp-port

Attribute Type: union

Attribute Name: dscp-value

Attribute Type: union

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<control>
<test-sessions>
<test-session>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <session-name>WORD</session-name>
    <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
    <sender-udp-port>862</sender-udp-port>
    <reflector-ip-address>TWAMP_HOSTNAME_T</reflector-ip-address>
    <reflector-udp-port>862</reflector-udp-port>
    <dscp-value>default</dscp-value>
  </config>
  <session-name>WORD</session-name>
</test-session>
</test-sessions>
</control>
</light>
</twamp>

```

Command Syntax

```

test-session-name WORD sender-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (sender-port
(862|<1025-65535>)) reflector-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME)
(reflector-port (862|<1025-65535>)) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7|<0-63>)) (vrf WORD|)

```

Configure session-reflector enable

Enables TWAMP Light Session Reflector

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<config>
  </enable>
</config>
</session-reflector>
</light>
</twamp>

```

Command Syntax

```
twamp-light reflector
```

Configure session-reflector administrative-state

Sets TWAMP Light Session Reflector administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <light>
    <session-reflector>
      <config>
        <administrative-state>disable</administrative-state> <!-- operation="delete"-->
      </config>
    </session-reflector>
  </light>
</twamp>
```

Command Syntax

```
reflector-admin-state (disable|enable)
```

Configure upstream intf

Use this attribute to set the VPN Network Interface for the reflector

Attribute Name: upstream-intf

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Attribute Name: reflector-ip-address

Attribute Type: union

Attribute Name: reflector-udp-port

Attribute Type: union

Default Value: 862

Attribute Name: sender-ip-address

Attribute Type: union

Default Value: NULL

Attribute Name: sender-udp-port

Attribute Type: union

Default Value: 0

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <light>
```

```

<session-reflector>
<sessions>
<session>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <name>WORD</name>
    <reflector-ip-address>TWAMP_HOSTNAME_T</reflector-ip-address>
    <reflector-udp-port>862</reflector-udp-port>
    <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
    <sender-udp-port>0</sender-udp-port>
  </config>
  <name>WORD</name>
  <upstream-intf>WORD</upstream-intf>
</session>
</sessions>
</session-reflector>
</light>
</twamp>

```

Command Syntax

```

reflector-name WORD reflector-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (reflector-
port (862|<1025-65535>)|) (sender-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME)|)
(sender-port (0|862|<1025-65535>)|) (vrf WORD|) (vpn-net-interface WORD|)

```

Configure reflector udp port

Use this attribute to set Reflector UDP Port

Attribute Name: reflector-udp-port

Attribute Type: enum (862)

Default Value: 862

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<sessions>
<session>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>WORD</vrf-name>
    <name>WORD</name>
  </config>
  <name>WORD</name>
  <reflector-udp-port>862</reflector-udp-port> <!-- operation="delete"-->
</session>
</sessions>
</session-reflector>
</light>

```

```
</twamp>
```

Command Syntax

```
(reflector-port (862) |)
```

Configure sender ip address

Set TWAMP Reflector Session sender IP address

Attribute Name: sender-ip-address

Attribute Type: inet:ipv4-address

Default Value: NULL

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <light>
    <session-reflector>
      <sessions>
        <session>
          <vrf-name>NAME</vrf-name>
          <config>
            <vrf-name>WORD</vrf-name>
            <name>WORD</name>
          </config>
          <name>WORD</name>
          <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
        </session>
      </sessions>
    </session-reflector>
  </light>
</twamp>
```

Command Syntax

```
(sender-ip|)
```

Configure sender udp port

Use this attribute to set the sender UDP Port

Attribute Name: sender-udp-port

Attribute Type: enum (0)

Default Value: 0

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <light>
    <session-reflector>
      <sessions>
        <session>
```

```

    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>WORD</vrf-name>
        <name>WORD</name>
    </config>
    <name>WORD</name>
    <sender-udp-port>0</sender-udp-port> <!-- operation="delete"-->
</session>
</sessions>
</session-reflector>
</light>
</twamp>

```

Command Syntax

```
(sender-port (0) |)
```

Configure options

Use this attribute to debug the twamp session

Attribute Name: options

Attribute Type: enum (twamp)

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <debug>
    <config>
      <options>twamp</options> <!-- operation="delete"-->
    </config>
  </debug>
</twamp>

```

Command Syntax

```
debug (twamp)
```

Configure port

Use this attribute to set Server TCP Port

Attribute Name: port

Attribute Type: union

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <port>862</port> <!-- operation="delete"-->
    </config>
  </server>
</twamp>

```

Command Syntax

```
port (862|<1025-65535>)
```

Configure max connection duration

Set the maximum connection duration in hours, 0 to disable

Attribute Name: max-connection-duration

Attribute Type: uint8

Attribute Range: 0-120

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <max-connection-duration>0</max-connection-duration> <!-- operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
max-connection-duration <0-120>
```

Configure max connections

Set the maximum connections

Attribute Name: max-connections

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <max-connections>1</max-connections> <!-- operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
max-connections <1-32>
```

Configure max connections per client

Set the maximum number of connections per client

Attribute Name: max-connections-per-client

Attribute Type: uint8

Attribute Range: 1-4

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <max-connections-per-client>1</max-connections-per-client> <!--
operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
max-connections-per-client <1-4>
```

Configure maximum sessions

Set the maximum number of test sessions for the server

Attribute Name: maximum-sessions

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <maximum-sessions>1</maximum-sessions> <!-- operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
maximum-sessions <1-2000>
```

Configure maximum sessions per connection

Set the maximum number of test sessions per client connection

Attribute Name: maximum-sessions-per-connection

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <maximum-sessions-per-connection>1</maximum-sessions-per-connection> <!--
operation="delete"-->
```



```
</config>
</server>
</twamp>
```

Command Syntax

```
maximum-sessions-per-connection <1-2000>
```

Configure inactivity timeout

Set the control packet idle timeout value in minutes, 0 to disable

Attribute Name: inactivity-timeout

Attribute Type: uint8

Attribute Range: 0-30

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <inactivity-timeout>0</inactivity-timeout> <!-- operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
inactivity-timeout <0-30>
```

Configure server vrf-name

Use this attribute to add a custom vrf to the list of VRFs where the twamp server is listening

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <config>
      <vrf-name>NAME</vrf-name> <!-- operation="delete"-->
    </config>
  </server>
</twamp>
```

Command Syntax

```
listen-vrf NAME
```

Configure admin enable

Enables TWAMP Server

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <admin>
      <config>
        </enable>
      </config>
    </admin>
  </server>
</twamp>
```

Command Syntax

```
twamp server
```

Configure admin administrative-state

Sets TWAMP Server administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <server>
    <admin>
      <config>
        <administrative-state>disable</administrative-state> <!-- operation="delete"-->
      </config>
    </admin>
  </server>
</twamp>
```

Command Syntax

```
server-admin-state (disable|enable)
```

twamp start test-session WORD packet-count <1-65535> (interval <500-10000>|) (delay-threshold <0-1000000>|)

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: packet-count

Attribute Type: uint16

Attribute Range: 1-65535

Attribute Name: packet-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 500-10000

Attribute Name: delay-threshold

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-1000000

Netconf RPC payload

```
<twamp-test-session-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
twamp">  
  <session-name>WORD</session-name>  
  <packet-count>1</packet-count>  
  <packet-interval>1000</packet-interval>  
  <delay-threshold>0</delay-threshold>  
</twamp-test-session-start>
```

Command Syntax

```
twamp start test-session WORD packet-count <1-65535> (interval <500-10000>|)  
(delay-threshold <0-1000000>|)
```

twamp stop test-session WORD

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Netconf RPC payload

```
<twamp-test-session-stop xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">  
  <session-name>WORD</session-name>  
</twamp-test-session-stop>
```

Command Syntax

```
twamp stop test-session WORD
```

debug (twamp)

Attribute Name: terminal-debug-options

Attribute Type: enum (twamp)

Netconf RPC payload

```
<twamp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<terminal-debug-options>twamp</terminal-debug-options>
</twamp-terminal-debug-on>
```

Command Syntax

```
debug (twamp)
```

no debug (twamp)

Attribute Name: terminal-debug-options

Attribute Type: enum (twamp)

Netconf RPC payload

```
<twamp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
twamp">
<terminal-debug-options>twamp</terminal-debug-options>
</twamp-terminal-debug-off>
```

Command Syntax

```
no debug (twamp)
```

IPI-ROLE-BASED-ACCESS-CONTROL

Configure policy name

Use this attribute to create a TACACS+ Role-Based Authorization (RBAC) policy and enter RBAC policy mode.

Attribute Name: policy-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
<policies>
<policy> <!-- operation="delete"-->
<policy-name>POLICY-NAME</policy-name>
<config>
<policy-name>POLICY-NAME</policy-name>
</config>
</policy>
</policies>
</role-based-access-control>
```

Command Syntax

```
policy POLICY-NAME
```

Configure command mode

Attribute to specify the mode in which CLI should be allowed/denied. Command prompt string such as 'config-router' or 'config-if', deny/Permit access to the command only in this mode.

Attribute Name: command-mode

Attribute Type: string

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
  <policies>
    <policy>
      <policy-name>POLICY-NAME</policy-name>
      <config>
        <policy-name>POLICY-NAME</policy-name>
      </config>
    </rules>
    <rule>
      <rule-name>RULE-STRING</rule-name>
      <config>
        <rule-name>RULE-STRING</rule-name>
        <rule-type>deny</rule-type> <!-- operation="delete"-->
      </config>
      <command-mode>MODE-NAME</command-mode> <!-- operation="delete"-->
    </rule>
  </rules>
</policies>
</role-based-access-control>
```

Command Syntax

```
(deny|permit) RULE-STRING mode MODE-NAME
```

Configure rule name

This attribute specifies rule string configured as regex-expression for cli authorization

Attribute Name: rule-name

Attribute Type: string

Attribute Range: 3-255

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
```

```

<policies>
<policy>
  <policy-name>POLICY-NAME</policy-name>
  <config>
    <policy-name>POLICY-NAME</policy-name>
  </config>
</rules>
<rule>
  <rule-name>RULE-STRING</rule-name>
  <config>
    <rule-name>RULE-STRING</rule-name>
    <rule-type>deny</rule-type>
  </config>
</rule>
</rules>
</policy>
</policies>
</role-based-access-control>

```

Command Syntax

```
(deny|permit) RULE-STRING
```

Configure rule type

Attribute to specify the mode in which CLI should be allowed/denied. Command prompt string such as 'config-router' or 'config-if', deny/Permit access to the command only in this mode.

Attribute Name: command-mode

Attribute Type: string

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```

<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
  <policies>
    <policy>
      <policy-name>POLICY-NAME</policy-name>
      <config>
        <policy-name>POLICY-NAME</policy-name>
      </config>
    </rules>
    <rule>
      <rule-name>RULE-STRING</rule-name>
      <config>
        <rule-name>RULE-STRING</rule-name>
        <rule-type>deny</rule-type>
      </config>
      <command-mode>MODE-NAME</command-mode>
    </rule>
  </policies>
</role-based-access-control>

```

```

</rules>
</policy>
</policies>
</role-based-access-control>

```

Command Syntax

```
(deny|permit) RULE-STRING mode MODE-NAME
```

Configure role name

Use this attribute to create a TACACS+ Role-Based Authorization (RBAC) role and to switch to RBAC role mode. End-user cannot specify one of these roles already defined in OcNOS: network-admin network-user network-operator network-engineer For more about these built-in roles, see 'username' CLI configuration

Attribute Name: role-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```

<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
  <roles>
    <role> <!-- operation="delete"-->
      <role-name>ROLE-NAME</role-name>
      <config>
        <role-name>ROLE-NAME</role-name>
      </config>
    </role>
  </roles>
</role-based-access-control>

```

Command Syntax

```
role ROLE-NAME
```

Configure default policy

Use this attribute to set the default rule for a TACACS+ Role-Based Access Control (RBAC) role.

Attribute Name: default-policy

Attribute Type: enum (deny-all|permit-all)

Default Value: deny-all

Netconf edit-config payload

```

<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
  <roles>
    <role>
      <role-name>ROLE-NAME</role-name>
      <config>
        <role-name>ROLE-NAME</role-name>

```

```

    </config>
    <default-policy>deny-all</default-policy> <!-- operation="delete"-->
</role>
</roles>
</role-based-access-control>

```

Command Syntax

```
default (deny-all|permit-all)
```

Configure policies policy-name

Use this attribute to add a policy to a TACACS+ Role-based Access Control (RBAC) role

Attribute Name: policy-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```

<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
  <roles>
    <role>
      <role-name>ROLE-NAME</role-name>
      <config>
        <role-name>ROLE-NAME</role-name>
      </config>
      <policies>
        <policy> <!-- operation="delete"-->
          <policy-name>POLICY-NAME</policy-name>
          <config>
            <policy-name>POLICY-NAME</policy-name>
          </config>
        </policy>
      </policies>
    </role>
  </roles>
</role-based-access-control>

```

Command Syntax

```
add policy POLICY-NAME
```

Configure enable

Enable or disable the TACAS+ Role-Based Access Control of RBAC feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-based-access-control">
  <config>
    </enable><!-- operation="delete"-->
  </config>
</role-based-access-control>
```

Command Syntax

```
feature dynamic-rbac
```

IPI-PORT-BREAKOUT

Configure interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
      </config>
    </breakout>
  </breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout
(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|1X200g|4X50g)
```

Configure mode

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
        <serdes>25g</serdes>
      </config>
    </breakout>
  </breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (2X100g|1X100g) (serdes (25g)|)
```

Configure serdes

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
        <serdes>25g</serdes>
      </config>
    </breakout>
```

```
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (2X100g|1X100g) serdes (25g|50g|100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
  <interface>IFNAME</interface>
  <config>
    <interface>WORD</interface>
    <mode>4X10g</mode>
    <serdes>25g</serdes>
  </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (4X100g|2X200g|3X100g|1X200g|1X400g) serdes (50g|100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
  <interface>IFNAME</interface>
  <config>
    <interface>WORD</interface>
    <mode>4X10g</mode>
  </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (4X10g|4X25g|2X50g|4X100g|2X200g|3X100g|1X200g|4X50g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
  <interface>IFNAME</interface>
  <config>
    <interface>WORD</interface>
    <mode>4X10g</mode>
  </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout
(2X50g|8X50g|4X50g|3X200g|4X200g|2X400g|8X100g|7X100g|6X100g|5X100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
      </config>
    </breakout>
  </breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (4X10g|4X25g|2X50g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
      </config>
    </breakout>
  </breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (1X40g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum

(4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <breakouts>
    <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
        <interface>WORD</interface>
        <mode>4X10g</mode>
      </config>
    </breakout>
  </breakouts>
</port-breakout>
```

Command Syntax

```
port <1-128> breakout (4X10g|4X25g|2X50g)
```

Configure name

Use this attribute to configure Port-breakout mode for an interface

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <mode>4X10g</mode> <!-- operation="delete"-->
    </interface>
  </interfaces>
</port-breakout>
```

Command Syntax

```
port breakout enable (4X10g|4X25g|2X50g)
```

IPI-PCEP

Configure entity id

PCEP Entity ID.

Attribute Name: entity-id

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity> <!-- operation="delete"-->
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
</pcep>
```

Command Syntax

```
pce configuration <1-255>
```

Configure keep alive interval

This attribute is used to set the keep alive transmission timer that this PCEP entity will propose in the initial OPEN message of each session it is involved in. This is the maximum time between two consecutive messages sent to a peer. Zero means that the PCEP entity prefers not to send Keepalives at all.

Attribute Name: keep-alive-interval

Attribute Type: uint8

Default Value: 30

Attribute Range: 0-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
        <keep-alive-interval>0</keep-alive-interval> <!-- operation="delete"-->
      </config>
    </entity>
  </entities>
```

```
</pcep>
```

Command Syntax

```
keepalive <0-255>
```

Configure dead interval

This attribute is used to set the dead timer that this PCEP entity will propose in the initial OPEN message of each session it is involved in. This is the time after which a peer should declare a session down if it does not receive any PCEP messages.

Attribute Name: dead-interval

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
      <dead-interval>1</dead-interval> <!-- operation="delete"-->
    </entity>
  </entities>
</pcep>
```

Command Syntax

```
deadtimer <1-255>
```

Configure request timeout

This attribute is used to set the maximum time that the PCEP entity will wait for a response to a PCReq message.

Attribute Name: request-timeout

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-20

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
</pcep>
```



```

    </config>
    <request-timeout>1</request-timeout> <!-- operation="delete"-->
</entity>
</entities>
</pcep>

```

Command Syntax

```
request-timeout <1-20>
```

Configure tolerance keepalive

This attribute is used to set the tolerance value for keep-alive timer.

Attribute Name: tolerance-keepalive

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
    <entity-id>1</entity-id>
    <config>
        <entity-id>1</entity-id>
    </config>
    <tolerance-keepalive>1</tolerance-keepalive> <!-- operation="delete"-->
</entity>
</entities>
</pcep>

```

Command Syntax

```
tolerance keepalive <1-255>
```

Configure tolerance dead interval

This attribute is used to set the tolerance value for dead interval timer.

Attribute Name: tolerance-dead-interval

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
    <entity-id>1</entity-id>
    <config>
        <entity-id>1</entity-id>
    </config>

```

```

    <tolerance-dead-interval>1</tolerance-dead-interval> <!-- operation="delete"-->
  </entity>
</entities>
</pcep>

```

Command Syntax

```
tolerance deadtimer <1-255>
```

Configure cool off timeout

This attribute is used to set Flap dampening time.

Attribute Name: cool-off-timeout

Attribute Type: int32

Attribute Range: 1-300

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
      <cool-off-timeout>1</cool-off-timeout> <!-- operation="delete"-->
    </entity>
  </entities>
</pcep>

```

Command Syntax

```
cool-off-timeout <1-300>
```

Configure source address

This attribute is used to configure the local Internet address of this PCEP entity. If operating as a PCE server, the PCEP entity listens on this address. If operating as a PCC, the PCEP entity binds outgoing TCP connections to this address. It is possible for the PCEP entity to operate both as a PCC and a PCE Server, in which case it uses this address both to listen for incoming TCP connections and to bind outgoing TCP connections.

Attribute Name: source-address

Attribute Type: inet:ip-address

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
</pcep>

```

```

    <source-address>CML_IP_ADDR_T</source-address>
  </entity>
</entities>
</pcep>

```

Command Syntax

```
update-source (A.B.C.D|X:X::X:X)
```

Configure recovery policy

This attribute is used to configure delegation recovery policy.

Attribute Name: recovery-policy

Attribute Type: enum (local-control|removal)

Default Value: removal

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
        </config>
        <recovery-policy>removal</recovery-policy> <!-- operation="delete"-->
      </entity>
    </entities>
  </pcep>

```

Command Syntax

```
delegation-recovery policy (local-control|removal)
```

Configure segment routing v6

This attribute is used to enable segment-routing ipv6 capability.

Attribute Name: segment-routing-v6

Attribute Type: empty

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
        </config>
      <capability>
        <config>

```

```

        </segment-routing-v6><!-- operation="delete"-->
    </config>
</capability>
</entity>
</entities>
</pcep>

```

Command Syntax

```
segment-routing srv6 pcep
```

Configure pce instantiate

This attribute is used to enable PCE-initiated LSP capability.

Attribute Name: pce-instantiate

Attribute Type: empty

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
  <pce-instantiate><!-- operation="delete"-->
</pcep>

```

Command Syntax

```
pce instantiation
```

Configure segment routing

This attribute is used to enable segment-routing capability.

Attribute Name: segment-routing

Attribute Type: empty

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>

```

```

        <entity-id>1</entity-id>
    </config>
</capability>
<config>
    </segment-routing><!-- operation="delete"-->
</config>
</capability>
</entity>
</entities>
</pcep>

```

Command Syntax

```
segment-routing pcep
```

Configure redelegation timeout

This attribute is used to set the time period a PCC waits before revoking LSP delegation to a PCE and attempting to redelegate LSPs associated with the terminated PCEP session to an alternate PCE.

Attribute Name: redelegation-timeout

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-600

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
  <stateful>
    <config>
      <redelegation-timeout>1</redelegation-timeout> <!-- operation="delete"-->
    </config>
  </stateful>
</pcep>

```

Command Syntax

```
redelegation-timeout <1-600>
```

Configure lsp state timeout

This attribute is used to set the time period a PCC waits before flushing LSP state associated with the terminated PCEP session and reverting to operator-defined default parameters or behaviours.

Attribute Name: lsp-state-timeout

Attribute Type: union

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
  <stateful>
    <config>
      <lsp-state-timeout>PCEP_LSP_STATE_TIMEOUT_T</lsp-state-timeout>
    </config>
  </stateful>
</pcep>
```

Command Syntax

```
lsp-state-timeout (infinity|<1-600>)
```

Configure flap interval

This attribute is used to set the flap interval time.

Attribute Name: flap-interval

Attribute Type: int32

Attribute Range: 10-36000

Attribute Name: flap-count

Attribute Type: int32

Attribute Range: 10-1000

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
        <flap-limit>
          <config>
            <flap-count>10</flap-count>
            <flap-interval>10</flap-interval>
          </config>
        </flap-limit>
      </config>
    </entity>
  </entities>
```

```
</entities>
</pcep>
```

Command Syntax

```
flap-limit <10-1000> <10-36000>
```

Configure interval

This attribute is used to set time unit for updates dampening.

Attribute Name: interval

Attribute Type: int32

Attribute Range: 10-36000

Attribute Name: count

Attribute Type: int32

Attribute Range: 1-1000

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
      <update-limit>
        <config>
          <count>1</count> <!-- operation="delete"-->
          <interval>10</interval> <!-- operation="delete"-->
        </config>
      </update-limit>
    </entity>
  </entities>
</pcep>
```

Command Syntax

```
update-limit <1-1000> <10-36000>
```

Configure lsp limit

This attribute is used to set the starting Tunnel-id range for the PCE initiated LSP.

Attribute Name: lsp-limit

Attribute Type: uint32

Attribute Range: 1-1048575

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
```

```

<init-lsp-limit>
<config>
  <lsp-limit>1</lsp-limit>
</config>
</init-lsp-limit>
</pcep>

```

Command Syntax

```
pce init-lsp-limit <1-1048575>
```

Configure options

This attribute is used to enable/disable PCEP debug logs.

Attribute Name: options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all)

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<debug>
<config>
  <options>events</options> <!-- operation="delete"-->
</config>
</debug>
</pcep>

```

Command Syntax

```

debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all)

```

Configure srv6 spirent comp

This attribute is used to enable/disable PCEP SRv6 spirent TLV value compliance.

Attribute Name: srv6-spirent-comp

Attribute Type: empty

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<srv6-spirent-comp>
<config>
  </srv6-spirent-comp><!-- operation="delete"-->
</config>
</srv6-spirent-comp>
</pcep>

```

Command Syntax

```
pcep srv6 spirent controller compliance
```

debug pcep

(events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Netconf RPC payload

```
<pcep-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <terminal-debug-options>events</terminal-debug-options>
</pcep-terminal-debug-on>
```

Command Syntax

```
debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all|)
```

no debug pcep

(events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Netconf RPC payload

```
<pcep-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <terminal-debug-options>events</terminal-debug-options>
</pcep-terminal-debug-off>
```

Command Syntax

```
no debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all|)
```

clear pcep request (<5001-65535>|all|)

Attribute Name: tunnel-id

Attribute Type: string

Netconf RPC payload

```
<clear-pcep-requests xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <tunnel-id>5001</tunnel-id>
</clear-pcep-requests>
```

Command Syntax

```
clear pcep request (<5001-65535>|all|)
```

IPI-PCEP-PEER

Configure address

The local Internet address of this PCEP peer.

Attribute Name: address

Attribute Type: union

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
      <peers>
        <peer> <!-- operation="delete"-->
          <address>PCEP_IP_ADDR_T</address>
          <config>
            <address>PCEP_IP_ADDR_T</address>
          </config>
        </peer>
      </peers>
    </entity>
  </entities>
</pcep>
```

Command Syntax

```
peer-address (ipv4 A.B.C.D|ipv6 X:X::X:X)
```

Configure delegation preference

The PCE peer delegation preference.

Attribute Name: delegation-preference

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
  <entities>
    <entity>
      <entity-id>1</entity-id>
      <config>
        <entity-id>1</entity-id>
      </config>
    </entity>
  </entities>
</pcep>
```

```

    <peers>
    <peer>
        <address>PCEP_IP_ADDR_T</address>
        <config>
            <address>PCEP_IP_ADDR_T</address>
        </config>
        <delegation-preference>1</delegation-preference> <!--
operation="delete"-->
    </peer>
</peers>
</entity>
</entities>
</pcep>

```

Command Syntax

```
peer-address delegation-priority <1-65535>
```

Configure authentication key

The authentication option.

Attribute Name: authentication-key

Attribute Type: string

Netconf edit-config payload

```

<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
    <entity>
        <entity-id>1</entity-id>
        <config>
            <entity-id>1</entity-id>
        </config>
        <peers>
        <peer>
            <address>PCEP_IP_ADDR_T</address>
            <config>
                <address>PCEP_IP_ADDR_T</address>
                <authentication-key>WORD</authentication-key> <!-- operation="delete"-
->
            </peer>
        </peers>
    </entity>
</entities>
</pcep>

```

Command Syntax

```
peer-address md5 WORD
```

clear pcep peer *

Netconf RPC payload

```
<ipi-pcep-peer_clear-pcep-peer-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-pcep"/>
```

Command Syntax

```
clear pcep peer *
```

clear pcep peer (A.B.C.D|X:X::X:X)

Attribute Name: address

Attribute Type: inet:ip-address

Netconf RPC payload

```
<ipi-pcep-peer_clear-pcep-peer xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
pcep">
  <address>CML_IP_ADDR_T</address>
</ipi-pcep-peer_clear-pcep-peer>
```

Command Syntax

```
clear pcep peer (A.B.C.D|X:X::X:X)
```

clear pcep statistics

Netconf RPC payload

```
<ipi-pcep-peer_clear-pcep-statistics xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pcep"/>
```

Command Syntax

```
clear pcep statistics
```

IPI-SOURCE-INTERFACE

Configure vrf name

VRF to apply the source-interface.

This command is supported when following feature are enabled hostp feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<source-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-source-
interface">
  <address-family-ipv4>
```

```

<source-nat-mappings>
<source-nat-mapping>
  <vrf-name>NAME</vrf-name>
  <config>
    <vrf-name>NAME</vrf-name>
    <port-number>49</port-number>
    <protocol-type>tacacs+</protocol-type>
    <interface-name>WORD</interface-name>
  </config>
  <port-number>49</port-number>
  <protocol-type>tacacs+</protocol-type>
  <interface-name>IFNAME</interface-name>
</source-nat-mapping>
</source-nat-mappings>
</address-family-ipv4>
</source-interface>

```

Command Syntax

```

ip source-interface IFNAME (tacacs+|ntp|snmp|syslog|radius) (port
(49|123|162|514|1812|<1025-65535>)|) (vrf (NAME|management)|)

```

Configure interface name

VRF to apply the source-interface.

This command is supported when following feature are enabled IPV6 feature, hostp feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```

<source-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-source-
interface">
  <address-family-ipv6>
  <source-nat-mappings>
  <source-nat-mapping>
    <vrf-name>NAME</vrf-name>
    <config>
      <vrf-name>NAME</vrf-name>
      <port-number>49</port-number>
      <protocol-type>tacacs+</protocol-type>
      <interface-name>WORD</interface-name>
    </config>
    <port-number>49</port-number>
    <protocol-type>tacacs+</protocol-type>
    <interface-name>IFNAME</interface-name>
  </source-nat-mapping>
</source-nat-mappings>
</address-family-ipv6>
</source-interface>

```

Command Syntax

```
ipv6 source-interface IFNAME (tacacs+|ntp|snmp|syslog|radius) (port
(49|123|162|514|1812|<1025-65535>)|) (vrf (NAME|management)|)
```

IPI-TACACS

Configure feature enable

Use this attribute to enable the TACACS+ feature

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: feature-enable

Attribute Type: empty

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
  </feature-enable>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
feature tacacs+ (vrf (management|NAME)|)
```

Configure key type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
```

```

    <vrf-name>management</vrf-name>
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
  </config>
  <key-type>0</key-type> <!-- operation="delete"-->
</vrf>
</vrfs>
</tacacs>

```

Command Syntax

```
tacacs-server login key (0|7) WORD (vrf (management|NAME) |)
```

Configure vrf name

VRF Name associated with this instance

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-60

Netconf edit-config payload

```

<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <timeout>1</timeout> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</tacacs>

```

Command Syntax

```
tacacs-server login timeout <1-60> (vrf (management|NAME) |)
```

Configure host address

Use this attribute to set the TACACS+ server host name or IP address

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: host-address

Attribute Type: union

Attribute Range: 1-63

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server> <!-- operation="delete"-->
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number>
      </config>
    </server>
  </remote-servers>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8>
```

Configure sequence number

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
```



```

    <config>
      <vrf-name>management</vrf-name>
    </config>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
      </config>
      <key-type>0</key-type> <!-- operation="delete"-->
    </server>
  </remote-servers>
</vrf>
</vrfs>
</tacacs>

```

Command Syntax

```

tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD

```

Configure port

Port number used for TACACS+ Server Connection

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```

<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
      </config>
    </server>
  </remote-servers>
</tacacs>

```

```

    </config>
    <port>1025</port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>

```

Command Syntax

```

tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> port <1025-65535>

```

Configure timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```

<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
</remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
    </config>
        <timeout>1</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>

```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> timeout <1-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <port>1025</port> <!-- operation="delete"-->
      </config>
      <timeout>1</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> port <1025-65535> timeout <1-60>
```

Configure secret key string

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <remote-servers>
      <server>
        <host-address>A.B.C.D</host-address>
        <config>
          <host-address>A.B.C.D</host-address>
          <sequence-number>1</sequence-number> <!-- operation="delete"-->
          <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
          <port>1025</port> <!-- operation="delete"-->
        </config>
        <key-type>0</key-type> <!-- operation="delete"-->
      </server>
    </remote-servers>
  </vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD port <1025-65535>
```

Configure server key-type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint32

Attribute Range: 1-60

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
<remote-servers>
<server>
  <host-address>A.B.C.D</host-address>
  <config>
    <host-address>A.B.C.D</host-address>
    <sequence-number>1</sequence-number> <!-- operation="delete"-->
    <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    <timeout>1</timeout> <!-- operation="delete"-->
  </config>
  <key-type>0</key-type> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD timeout <1-60>
```

Configure server key-type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Attribute Name: timeout

Attribute Type: uint32

Attribute Range: 1-60

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <remote-servers>
    <server>
      <host-address>A.B.C.D</host-address>
      <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
        <port>1025</port> <!-- operation="delete"-->
        <timeout>1</timeout> <!-- operation="delete"-->
      </config>
      <key-type>0</key-type> <!-- operation="delete"-->
    </server>
  </remote-servers>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
num <1-8> key (0|7) WORD port <1025-65535> timeout <1-60>
```

Configure enable

This attribute is to enable/disable TACACS+ debug logging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <debug>
  <config>
    </enable><!-- operation="delete"-->
  </config>
</debug>
</tacacs>
```

Command Syntax

```
debug tacacs+
```

clear tacacs-server counters (vrf (management|NAME|all))

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-all-tacacs-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-tacacs">
  <vrf-name>management</vrf-name>
</clear-all-tacacs-server-counters>
```

Command Syntax

```
clear tacacs-server counters (vrf (management|NAME|all)|)
```

clear tacacs-server (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|NAME|all))

Attribute Name: hostname

Attribute Type: union

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-tacacs-server-host-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-tacacs">
```

```
<hostname>A.B.C.D</hostname>
<vrf-name>management</vrf-name>
</clear-tacacs-server-host-counters>
```

Command Syntax

```
clear tacacs-server (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf
(management|NAME|all) |)
```

debug tacacs+

Netconf RPC payload

```
<tacacs-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
tacacs"/>
```

Command Syntax

```
debug tacacs+
```

no debug tacacs+

Netconf RPC payload

```
<tacacs-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
tacacs"/>
```

Command Syntax

```
no debug tacacs+
```

IPI-TIME-RANGE

Configure name

Time range name to be configured

Attribute Name: name

Attribute Type: string

Attribute Range: 1-60

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range> <!-- operation="delete"-->
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</time-range>
</time-ranges>
```

Command Syntax

time-range WORD

Configure absolute start time

Start time hour and minute

Attribute Name: absolute-start-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
  <time-range>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  <start-time-options>
    <config>
      <absolute-start-time>TIME_RANGE_DATE_TIME_T</absolute-start-time>
    </config>
  </start-time-options>
</time-range>
</time-ranges>
```

Command Syntax

start-time HH:MM:SS <01-31> MONTH <1995-2035>

Configure relative start time

Configure the start-time of the time-range to be now or after sometime

Attribute Name: relative-start-time

Attribute Type: union

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
  <time-range>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  <start-time-options>
    <config>
      <relative-start-time>TIME_RANGE_RELATIVE_TIME_T</relative-start-time>
    </config>
  </start-time-options>
</time-range>
</time-ranges>
```

Command Syntax

start-time (after (<1-129600>) | now)

Configure absolute end time

End time hour and minute

Attribute Name: absolute-end-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
  <time-range>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </time-range>
</time-ranges>
```

Command Syntax

end-time HH:MM:SS <01-31> MONTH <1995-2035>

Configure relative end time

Relative time in minutes

Attribute Name: relative-end-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
  <time-range>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </time-range>
</time-ranges>
```

Command Syntax

```
end-time after <1-129600>
```

Configure frequency

Frequency (hourly, daily, weekly)

Attribute Name: frequency

Attribute Type: union

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
  <time-range>
    <name>WORD</name>
    <config>
      <name>WORD</name>
    </config>
  </time-range>
</time-ranges>
```

Command Syntax

```
frequency (daily|hourly|weekly|days WORD)
```

IPI-CRYPTO

Configure key encryption

Use this attribute to set the system global encryption algorithm

Attribute Name: key-encryption

Attribute Type: enum (3des|aes)

Netconf edit-config payload

```
<crypto xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
  <global>
    <config>
      <key-encryption>3des</key-encryption> <!-- operation="delete"-->
    </config>
  </global>
</crypto>
```

Command Syntax

```
global key-encryption (3des|aes)
```

crypto pki generate rsa common-name ipv4 IPv4ADDR

Attribute Name: ipv4-addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<crypto-rsa-key-gen xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
  <ipv4-addr>IPv4ADDR</ipv4-addr>
</crypto-rsa-key-gen>
```

Command Syntax

```
crypto pki generate rsa common-name ipv4 IPv4ADDR
```

crypto pki load (source-interface IFNAME|) WORD

Attribute Name: source-interface

Attribute Type: string

Attribute Range: 1-49

Attribute Name: url

Attribute Type: inet:uri

Netconf RPC payload

```
<crypto-rsa-load-cert xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
  <source-interface>IFNAME</source-interface>
  <url>WORD</url>
</crypto-rsa-load-cert>
```

Command Syntax

```
crypto pki load (source-interface IFNAME|) WORD
```

IPI-IP-SLA

Configure identifier

Use this attribute to set the IPSLA.

Attribute Name: identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process> <!-- operation="delete"-->
      <identifier>1</identifier>
```

```

    <config>
      <identifier>1</identifier>
    </config>
  </process>
</processes>
</ip-sla>

```

Command Syntax

```
ip sla <1-65535>
```

Configure host

Use this attribute to set the ICMP Echo host name or IP address.

Attribute Name: host

Attribute Type: union

Attribute Name: source-interface

Attribute Type: string

Netconf edit-config payload

```

<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process>
      <identifier>1</identifier>
      <config>
        <identifier>1</identifier>
      </config>
    <icmp-echo-processes>
      <icmp-echo-process> <!-- operation="delete"-->
        <host>IP_SLA_HOSTNAME_T</host>
        <config>
          <host>IP_SLA_HOSTNAME_T</host>
          <source-interface>IFNAME</source-interface>
        </config>
      </icmp-echo-process>
    </icmp-echo-processes>
  </process>
</processes>
</ip-sla>

```

Command Syntax

```
icmp-echo (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (source-interface IFNAME|)
```

Configure source ip

Use this attribute to set the ICMP Echo host name or IP address.

Attribute Name: host

Attribute Type: inet:ipv4-address

Attribute Name: source-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process>
      <identifier>1</identifier>
      <config>
        <identifier>1</identifier>
      </config>
    <icmp-echo-processes>
    <icmp-echo-process> <!-- operation="delete"-->
      <host>IP_SLA_HOSTNAME_T</host>
      <config>
        <host>IP_SLA_HOSTNAME_T</host>
        <source-ip>CML_IP_ADDR_T</source-ip>
      </config>
    </icmp-echo-process>
  </icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
icmp-echo (source-ip (A.B.C.D|X:X::X:X) |)
```

Configure frequency

The frequency (interval) correlates to how often the ICMP packet is sent. The unit of this parameter is in seconds.

Attribute Name: frequency

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process>
      <identifier>1</identifier>
      <config>
        <identifier>1</identifier>
      </config>
    <icmp-echo-processes>
    <icmp-echo-process>
      <host>IP_SLA_HOSTNAME_T</host>
      <config>
        <host>IP_SLA_HOSTNAME_T</host>
      </config>
    </icmp-echo-process>
  </icmp-echo-processes>
</processes>
</ip-sla>
```

```

        <frequency>1</frequency> <!-- operation="delete"-->
    </icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>

```

Command Syntax

```
frequency <1-60>
```

Configure timeout

The timeout value correlates to how long the Ping application will wait for the response after sending packets ICMP Echo packets.

Attribute Name: timeout

Attribute Type: uint16

Attribute Range: 1000-60000

Netconf edit-config payload

```

<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process>
      <identifier>1</identifier>
      <config>
        <identifier>1</identifier>
      </config>
    <icmp-echo-processes>
    <icmp-echo-process>
      <host>IP_SLA_HOSTNAME_T</host>
      <config>
        <host>IP_SLA_HOSTNAME_T</host>
      </config>
      <timeout>1000</timeout> <!-- operation="delete"-->
    </icmp-echo-process>
  </icmp-echo-processes>
</process>
</processes>
</ip-sla>

```

Command Syntax

```
timeout <1000-60000>
```

Configure threshold

The threshold value correlates to the limit the administrator sets as what would be a successful test. Threshold can be configured in milli-seconds.

Attribute Name: threshold

Attribute Type: uint16

Attribute Range: 1000-60000

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <processes>
    <process>
      <identifier>1</identifier>
      <config>
        <identifier>1</identifier>
      </config>
    <icmp-echo-processes>
    <icmp-echo-process>
      <host>IP_SLA_HOSTNAME_T</host>
      <config>
        <host>IP_SLA_HOSTNAME_T</host>
      </config>
      <threshold>1000</threshold> <!-- operation="delete"-->
    </icmp-echo-process>
  </icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
threshold <1000-60000>
```

Configure vrf name

VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <scheduled-processes>
    <scheduled-process>
      <time-range-name>WORD</time-range-name>
      <config>
        <time-range-name>WORD</time-range-name>
        <scheduled-pid>1</scheduled-pid>
      </config>
      <scheduled-pid>1</scheduled-pid>
      <vrf-name>NAME</vrf-name>
    </scheduled-process>
  </scheduled-processes>
</ip-sla>
```

Command Syntax

```
ip sla schedule <1-65535> time-range WORD (vrf NAME|)
```

clear ip sla statistics (<1-65535>|)

Attribute Name: identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
<ip-sla-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
  <identifier>1</identifier>
</ip-sla-clear-statistics>
```

Command Syntax

```
clear ip sla statistics (<1-65535>|)
```

IPI-SERVICE-MAP

Configure name

Name for the tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
  <tunnel-policies>
    <tunnel-policy> <!-- operation="delete"-->
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </tunnel-policy>
  </tunnel-policies>
</service-map>
```

Command Syntax

```
tunnel-policy NAME
```

Configure color code

Use this attribute to configure color for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: color-code

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
  <tunnel-policies>
    <tunnel-policy>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <color-code>1</color-code> <!-- operation="delete"-->
    </tunnel-policy>
  </tunnel-policies>
</service-map>
```

Command Syntax

```
color <1-4294967295>
```

Configure selection mode

Use this attribute to configure selection mode as dedicated or best-effort for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: selection-mode

Attribute Type: enum (dedicated|best-effort)

Default Value: dedicated

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
  <tunnel-policies>
    <tunnel-policy>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <selection-mode>dedicated</selection-mode> <!-- operation="delete"-->
    </tunnel-policy>
  </tunnel-policies>
</service-map>
```

Command Syntax

```
mode (dedicated|best-effort)
```

Configure tunnel type

Use this attribute to configure selection mode as sr or srv6 or rsvp for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: tunnel-type

Attribute Type: enum (rsvp|sr-mpls|srv6)

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
  <tunnel-policies>
    <tunnel-policy>
      <name>NAME</name>
      <config>
        <name>WORD</name>
      </config>
      <tunnel-type>rsvp</tunnel-type> <!-- operation="delete"-->
    </tunnel-policy>
  </tunnel-policies>
</service-map>
```

Command Syntax

```
tunnel-type (rsvp|sr-mpls|srv6)
```

IPI-CROSS-CONNECT

Configure xc name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: xc-name

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>cross-connect</instance-type>
    <config>
      <instance-type>cross-connect</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </cross-connect>
</config>
  <xc-name>WORD</xc-name>
```

```
</config>
</cross-connect>
</network-instance>
</network-instances>
```

Command Syntax

```
cross-connect WORD
```

Configure description

This attribute specifies the description for cross-connect

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>cross-connect</instance-type>
    </config>
    <instance-type>cross-connect</instance-type>
    <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <config>
        <description>LINE</description> <!-- operation="delete"-->
      </config>
    </cross-connect>
  </network-instance>
</network-instances>
```

Command Syntax

```
description LINE
```

Configure admin disable

This attribute is used to temporarily shutdown the cross-connect

Attribute Name: admin-disable

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
```

```

    <instance-type>cross-connect</instance-type>
  </config>
  <instance-type>cross-connect</instance-type>
  <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
  <config>
    </admin-disable><!-- operation="delete"-->
  </config>
</cross-connect>
</network-instance>
</network-instances>

```

Command Syntax

```
disable
```

Configure endpoint if

This attribute specifies the endpoint for cross-connect

This command is supported when following feature are disabled subinterface feature

Attribute Name: endpoint-if

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>cross-connect</instance-type>
    </config>
    <instance-type>cross-connect</instance-type>
    <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
    <cross-connect-interfaces>
    <cross-connect-interface> <!-- operation="delete"-->
      <endpoint-if>IFNAME</endpoint-if>
      <config>
        <endpoint-if>WORD</endpoint-if>
      </config>
    </cross-connect-interface>
    </cross-connect-interfaces>
    </cross-connect>
  </network-instance>
</network-instances>

```

Command Syntax

```
interface IFNAME
```

Configure endpoint if bkp

This attribute specifies the backup endpoint for cross-connect

This command is supported when following feature are disabled subinterface feature

Attribute Name: endpoint-if-bkp

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>cross-connect</instance-type>
    </config>
    <instance-type>cross-connect</instance-type>
    <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <cross-connect-interfaces>
        <cross-connect-interface>
          <endpoint-if>IFNAME</endpoint-if>
          <config>
            <endpoint-if>WORD</endpoint-if>
          </config>
          <endpoint-if-bkp>IFBKPPNAME</endpoint-if-bkp> <!-- operation="delete"-->
        </cross-connect-interface>
      </cross-connect-interfaces>
    </cross-connect>
  </network-instance>
</network-instances>
```

Command Syntax

```
backup IFBKPPNAME
```

Configure evc name

Ethernet virtual connection ID

This command is supported when following feature are disabled subinterface feature

Attribute Name: evc-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
```

```

<instance-name>WORD</instance-name>
<config>
  <instance-name>WORD</instance-name>
  <instance-type>cross-connect</instance-type>
</config>
  <instance-type>cross-connect</instance-type>
<cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
<cross-connect-interfaces>
<cross-connect-interface>
  <endpoint-if>IFNAME</endpoint-if>
  <config>
    <endpoint-if>WORD</endpoint-if>
  </config>
  <evc-name>EVCID</evc-name> <!-- operation="delete"-->
</cross-connect-interface>
</cross-connect-interfaces>
</cross-connect>
</network-instance>
</network-instances>

```

Command Syntax

```
g8031-eps EVCID
```

IPI-BRIDGE-DOMAIN

Configure domain id

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

This command is supported when following feature are enabled HAVE_SUBINTERFACE and following feature are disabled HAVE_CUSTOM1_SUBINTERFACE,HAVE_SWFWDR

Attribute Name: instance-name

Attribute Type: string

Attribute Name: domain-id

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance> <!-- operation="delete"-->
    <instance-type>bridge-domain</instance-type>
    <config>
      <instance-type>bridge-domain</instance-type>
      <instance-name>WORD</instance-name>
    </config>

```

```

    <instance-name>WORD</instance-name>
  <bridge-domain>
  <config>
    <domain-id>WORD</domain-id>
  </config>
</bridge-domain>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-domain <1-2147483647>
```

Configure description

This attribute specifies the description for bridge domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support, HAVE_SWFWDR feature is enabled

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>bridge-domain</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
  <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
    <config>
      <description>LINE</description> <!-- operation="delete"-->
    </config>
  </bridge-domain>
</network-instance>
</network-instances>

```

Command Syntax

```
description LINE
```

Configure route interface

This attribute specifies the Logical L3 BVI interface for bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support, HAVE_SWFWDR feature is enabled

Attribute Name: route-interface

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>bridge-domain</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
    <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <config>
        <route-interface>IFNAME</route-interface> <!-- operation="delete"-->
      </config>
    </bridge-domain>
  </network-instance>
</network-instances>

```

Command Syntax

```
routed-interface IFNAME
```

Configure bridge id

Map bridge mst instance to bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>bridge-domain</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
    <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <bridge-instance>
        <config>
          <instance-id>1</instance-id>
          <bridge-id>1</bridge-id>
        </config>
      </bridge-instance>
    </bridge-domain>
  </network-instance>
</network-instances>

```

```

</bridge-instance>
</bridge-domain>
</network-instance>
</network-instances>

```

Command Syntax

```
stp-instance <1-63> bridge <1-32>
```

Configure instance id

Value of instance id

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support, HAVE_SWFWDR feature is enabled

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 1-63

Attribute Name: bridge-id

Attribute Type: string

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>bridge-domain</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
    <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <bridge-instance>
        <config>
          <bridge-id>1</bridge-id>
          <instance-id>1</instance-id>
        </config>
      </bridge-instance>
    </bridge-domain>
  </network-instance>
</network-instances>

```

Command Syntax

```
stp-instance <1-63> bridge <1-32>
```

Configure name

This attribute specifies the subif for bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>bridge-domain</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
    <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <member-interfaces>
        <member-interface <!-- operation="delete"-->
          <name>IFNAME</name>
          <config>
            <name>WORD</name>
          </config>
        </member-interface>
      </member-interfaces>
    </bridge-domain>
  </network-instance>
</network-instances>
```

Command Syntax

```
interface IFNAME
```

Configure mac address

Use this attribute to configure the static forwarding table MAC entry for the bridge

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: mac-address

Attribute Type: string

Attribute Name: action

Attribute Type: enum (deny|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```

<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
  <network-instance>
    <instance-name>WORD</instance-name>
    <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
    </config>
    <instance-type>bridge-domain</instance-type>
    <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
    <bridge-domain-mac-table>
    <static-entry> <!-- operation="delete"-->
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <config>
        <mac-address>CML_MAC_ADDR_T</mac-address>
        <action>deny</action>
        <interface-name>IFNAME</interface-name>
      </config>
    </static-entry>
    </bridge-domain-mac-table>
    </bridge-domain>
    </network-instance>
  </network-instances>

```

Command Syntax

```
mac XXXX.XXXX.XXXX (deny|forward) IFNAME
```

clear mac address-table dynamic bridge-domain all**Netconf RPC payload**

```

<clear-bridge-domain-mac-address-all-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bridge-domain"/>

```

Command Syntax

```
clear mac address-table dynamic bridge-domain all
```

clear mac address-table dynamic bridge-domain id <1-2147483647> (interface IFNAME|) (address MACADDR|)

Attribute Name: bridge-domain

Attribute Type: string

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
<clear-bridge-domain-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
  <bridge-domain>id 1</bridge-domain>
  <interface-name>IFNAME</interface-name>
  <mac-address>MACADDR</mac-address>
</clear-bridge-domain-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic bridge-domain id <1-2147483647> (interface IFNAME|)
(address MACADDR|)
```

IPI-OBJECT-TRACKING

Configure tracker id

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-up

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
  <trackers>
    <tracker>
      <tracker-id>1</tracker-id>
      <config>
        <tracker-id>1</tracker-id>
        <delay-up>1</delay-up>
      </config>
    </tracker>
  </trackers>
</object-tracking>
```

Command Syntax

```
delay up <1-9999>
```

Configure delay down

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-down

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
  <trackers>
    <tracker>
      <tracker-id>1</tracker-id>
      <config>
        <tracker-id>1</tracker-id>
        <delay-down>1</delay-down>
      </config>
    </tracker>
  </trackers>
</object-tracking>
```

Command Syntax

```
delay down <1-9999>
```

Configure delay up

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-up

Attribute Type: uint16

Attribute Range: 1-9999

Attribute Name: delay-down

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
  <trackers>
    <tracker>
      <tracker-id>1</tracker-id>
      <config>
        <tracker-id>1</tracker-id>
        <delay-up>1</delay-up>
        <delay-down>1</delay-down>
      </config>
    </tracker>
  </trackers>
</object-tracking>
```

Command Syntax

```
delay up <1-9999> down <1-9999>
```

Configure select option

object tracking options

Attribute Name: select-option

Attribute Type: enum (all|any)

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      <select-option>all</select-option> <!-- operation="delete"-->
    </interface>
  </interfaces>
</object-tracking>
```

Command Syntax

```
object-tracking (all|any)
```

Configure track id

Use this attribute for Object Tracking id.

Attribute Name: track-id

Attribute Type: uint32

Attribute Range: 1-500

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <track-interfaces>
      <track-interface> <!-- operation="delete"-->
        <track-id>1</track-id>
        <config>
          <track-id>1</track-id>
        </config>
      </track-interface>
```

```

</track-interfaces>
</interface>
</interfaces>
</object-tracking>

```

Command Syntax

```
object-tracking <1-500>
```

IPI-DELAY-PROFILE

Configure profile type

The profile type for delay

Attribute Name: profile-type

Attribute Type: enum (interfaces)

Netconf edit-config payload

```

<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile> <!-- operation="delete"-->
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  </delay-profile>
</delay-profiles>

```

Command Syntax

```
delay-profile (interfaces)
```

Configure mode

Set the measurement mode

Attribute Name: mode

Attribute Type: enum (one-way|two-way)

Netconf edit-config payload

```

<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  <profile-parameters>
    <config>
      <mode>one-way</mode> <!-- operation="delete"-->
    </config>
  </delay-profile>
</delay-profiles>

```



```
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
mode (one-way|two-way)
```

Configure sender port

Configure the computation interval

Attribute Name: sender-port

Attribute Type: uint16

Attribute Range: 1025-65535

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
  <profile-type>interfaces</profile-type>
  <config>
    <profile-type>interfaces</profile-type>
  </config>
<profile-parameters>
<config>
  <sender-port>1025</sender-port> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
sender-port <1025-65535>
```

Configure burst interval

Configure the burst-interval

Attribute Name: burst-interval

Attribute Type: uint16

Attribute Range: 1000-15000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
  <profile-type>interfaces</profile-type>
  <config>
    <profile-type>interfaces</profile-type>
  </config>
<profile-parameters>
```

```

<config>
  <burst-interval>1000</burst-interval> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>

```

Command Syntax

```
burst-interval <1000-15000>
```

Configure burst count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```

<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  <profile-parameters>
    <config>
      <burst-count>1</burst-count> <!-- operation="delete"-->
    </config>
  </profile-parameters>
</delay-profile>
</delay-profiles>

```

Command Syntax

```
burst-count <1-10>
```

Configure interval

Configure the computation interval

Attribute Name: interval

Attribute Type: uint16

Attribute Range: 30-3600

Netconf edit-config payload

```

<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>

```

```
    <profile-type>interfaces</profile-type>
  </config>
<profile-parameters>
<config>
    <interval>30</interval> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
interval <30-3600>
```

Configure disable

Disable the periodic advertisement

Attribute Name: disable

Attribute Type: uint8

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
        <profile-type>interfaces</profile-type>
    </config>
<periodic-advertisement>
<config>
    </disable><!-- operation="delete"-->
</config>
</periodic-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
no advertisement periodic
```

Configure threshold

Configure the periodic advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
```

```

    <profile-type>interfaces</profile-type>
  </config>
  <profile-type>interfaces</profile-type>
</config>
<periodic-advertisement>
<config>
  <threshold>1</threshold> <!-- operation="delete"-->
</config>
</periodic-advertisement>
</delay-profile>
</delay-profiles>

```

Command Syntax

```
advertisement periodic threshold <1-100>
```

Configure minimum change

Configure the advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```

<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  </delay-profile>
  <periodic-advertisement>
    <config>
      <minimum-change>0</minimum-change> <!-- operation="delete"-->
    </config>
  </periodic-advertisement>
</delay-profiles>

```

Command Syntax

```
advertisement periodic minimum-change <0-10000>
```

Configure enable

Enable the accelerated advertisement

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
  <profile-type>interfaces</profile-type>
  <config>
    <profile-type>interfaces</profile-type>
  </config>
<accelerated-advertisement>
<config>
  </enable>
</config>
</accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated
```

Configure accelerated-advertisement threshold

Configure the accelerated advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
  <profile-type>interfaces</profile-type>
  <config>
    <profile-type>interfaces</profile-type>
  </config>
<accelerated-advertisement>
<config>
  <threshold>1</threshold> <!-- operation="delete"-->
</config>
</accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated threshold <1-100>
```

Configure accelerated-advertisement minimum-change

Configure the advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  <accelerated-advertisement>
    <config>
      <minimum-change>0</minimum-change> <!-- operation="delete"-->
    </config>
  </accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated minimum-change <0-10000>
```

Configure enabled

Enable the notifications for advertising via NETCONF/SNMP Traps when thresholds are crossed

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  <notifications>
    <config>
      </enabled>
    </config>
  </notifications>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
notification enabled
```

Configure notifications threshold

Configure the notifications advertisement threshold

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  </delay-profile>
  <notifications>
    <config>
      <threshold>1</threshold> <!-- operation="delete"-->
    </config>
  </notifications>
</delay-profiles>
```

Command Syntax

```
notification threshold <1-100>
```

Configure notifications minimum-change

Configure the notifications advertisement minimum-change in microseconds (default=1000)

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
      <profile-type>interfaces</profile-type>
    </config>
  </delay-profile>
  <notifications>
    <config>
      <minimum-change>0</minimum-change> <!-- operation="delete"-->
    </config>
  </notifications>
</delay-profiles>
```

```
</delay-profile>
</delay-profiles>
```

Command Syntax

```
notification minimum-change <0-10000>
```

Configure delay profile enable

Enables TWAMP Client delay profile

Attribute Name: delay-profile-enable

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile-clients>
    <config>
      </delay-profile-enable>
    </config>
  </delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
delay-profile clients
```

Configure delay-profile-clients burst-interval

Configure the burst-interval

Attribute Name: burst-interval

Attribute Type: uint16

Attribute Range: 1000-15000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile-clients>
    <config>
      <burst-interval>1000</burst-interval> <!-- operation="delete"-->
    </config>
  </delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
burst-interval <1000-15000>
```

Configure delay-profile-clients burst-count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
  <delay-profile-clients>
    <config>
      <burst-count>1</burst-count> <!-- operation="delete"-->
    </config>
  </delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
burst-count <1-10>
```

IPI-ELK

Configure password

Use this to configure ELK server password

Attribute Name: password

Attribute Type: string

Attribute Name: username

Attribute Type: string

Netconf edit-config payload

```
<elk xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-elk">
  <metricbeats>
    <metricbeat>
      <ip>A.B.C.D</ip>
      <config>
        <ip>A.B.C.D</ip>
        <username>USERNAME</username> <!-- operation="delete"-->
      </config>
      <password>PASSWORD</password> <!-- operation="delete"-->
    </metricbeat>
  </metricbeats>
</elk>
```

Command Syntax

```
elk server metricbeat A.B.C.D username USERNAME password PASSWORD
```

Configure certificate path

Used to configure Filebeat server path to certificate file

Attribute Name: certificate-path

Attribute Type: string

Netconf edit-config payload

```
<elk xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-elk">
  <filebeats>
    <filebeat>
      <ip>A.B.C.D</ip>
      <config>
        <ip>A.B.C.D</ip>
      </config>
      <certificate-path>FILE-PATH</certificate-path> <!-- operation="delete"-->
    </filebeat>
  </filebeats>
</elk>
```

Command Syntax

```
elk server filebeat A.B.C.D FILE-PATH
```

service enable metricbeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<elk-metricbeat-service-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
  <vrf-name>management</vrf-name>
</elk-metricbeat-service-enable>
```

Command Syntax

```
service enable metricbeat (vrf management|)
```

service enable filebeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<elk-filebeat-service-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
  <vrf-name>management</vrf-name>
</elk-filebeat-service-enable>
```

Command Syntax

```
service enable filebeat (vrf management|)
```

service disable metricbeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<elk-metricbeat-service-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
elk">  
  <vrf-name>management</vrf-name>  
</elk-metricbeat-service-disable>
```

Command Syntax

```
service disable metricbeat (vrf management|)
```

service disable filebeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<elk-filebeat-service-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-  
elk">  
  <vrf-name>management</vrf-name>  
</elk-filebeat-service-disable>
```

Command Syntax

```
service disable filebeat (vrf management|)
```

IPI-IPSEC

Configure transform set name

IPsec transform-set name

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">  
  <transform-sets>  
    <transform-set> <!-- operation="delete"-->  
      <transform-set-name>NAME</transform-set-name>  
    </transform-set>  
  </transform-sets>  
</ipsec>
```

```

    </config>
  </transform-set>
</transform-sets>
</ipsec>

```

Command Syntax

```
crypto ipsec transform-set NAME
```

Configure transform set mode

This attribute is used to configure mode for a transform-set.

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-mode

Attribute Type: enum (transport)

Default Value: transport

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <transform-sets>
    <transform-set>
      <transform-set-name>NAME</transform-set-name>
      <config>
        <transform-set-name>NAME</transform-set-name>
      </config>
      <transform-set-mode>transport</transform-set-mode> <!-- operation="delete"-->
    </transform-set>
  </transform-sets>
</ipsec>

```

Command Syntax

```
crypto ipsec transform-set NAME mode (transport)
```

Configure ah authentication

This attribute configures IPsec AH authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: ah-authentication

Attribute Type: enum (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <transform-sets>
    <transform-set>
      <transform-set-name>NAME</transform-set-name>
      <config>
        <transform-set-name>NAME</transform-set-name>
      </config>
    </transform-set>
  </transform-sets>
</ipsec>

```

```

<ah-auth>
<config>
    <ah-authentication>none</ah-authentication> <!-- operation="delete"-->
</config>
</ah-auth>
</transform-set>
</transform-sets>
</ipsec>

```

Command Syntax

```
crypto ipsec transform-set NAME ah (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)
```

Configure ah-auth ah-authentication

This attribute configures IPsec AH authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: ah-authentication

Attribute Type: enum (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
    <transform-set-name>NAME</transform-set-name>
    <config>
        <transform-set-name>NAME</transform-set-name>
    </config>
<ah-auth>
<config>
    <ah-authentication>none</ah-authentication> <!-- operation="delete"-->
</config>
</ah-auth>
</transform-set>
</transform-sets>
</ipsec>

```

Command Syntax

```
crypto ipsec transform-set NAME ah (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)
```

Configure esp encryption

This attribute configures IPsec ESP encryption type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: esp-encryption

Attribute Type: enum (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-blf256|esp-aes|esp-aes192|esp-aes256)

Attribute Name: esp-authentication

Attribute Type: enum (none|esp-md5|esp-sha1|esp-sha256|esp-sha384|esp-sha512)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <transform-sets>
    <transform-set>
      <transform-set-name>NAME</transform-set-name>
      <config>
        <transform-set-name>NAME</transform-set-name>
      </config>
    <esp-auth>
      <config>
        <esp-authentication>none</esp-authentication>
        <esp-encryption>esp-null</esp-encryption>
      </config>
    </esp-auth>
  </transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME esp-auth (none|esp-md5|esp-sha1|esp-sha256|esp-
sha384|esp-sha512) esp-enc (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-
blf256|esp-aes|esp-aes192|esp-aes256)
```

Configure esp authentication

This attribute configures IPsec ESP authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: esp-authentication

Attribute Type: enum (none|esp-md5|esp-sha1|esp-sha256|esp-sha384|esp-sha512)

Attribute Name: esp-encryption

Attribute Type: enum (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-blf256|esp-aes|esp-aes192|esp-aes256)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <transform-sets>
    <transform-set>
      <transform-set-name>NAME</transform-set-name>
      <config>
        <transform-set-name>NAME</transform-set-name>
      </config>
    <esp-auth>
      <config>
        <esp-encryption>esp-null</esp-encryption>
        <esp-authentication>none</esp-authentication>
      </config>
    </esp-auth>
  </transform-set>
</transform-sets>
</ipsec>
```

```

</esp-auth>
</transform-set>
</transform-sets>
</ipsec>

```

Command Syntax

```

crypto ipsec transform-set NAME esp-auth (none|esp-md5|esp-sha1|esp-sha256|esp-
sha384|esp-sha512) esp-enc (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-
blf256|esp-aes|esp-aes192|esp-aes256)

```

Configure name

IPsec Crypto Map name

This command is supported when following feature are enabled IPsec feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Attribute Name: sa-type

Attribute Type: enum (ipsec-manual)

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <crypto-maps>
    <crypto-map> <!-- operation="delete"-->
      <name>MAP-NAME</name>
      <config>
        <name>WORD</name>
        <sa-type>ipsec-manual</sa-type>
      </config>
    </crypto-map>
  </crypto-maps>
</ipsec>

```

Command Syntax

```

crypto map MAP-NAME (ipsec-manual)

```

Configure sequence id

Map sequence-id

This command is supported when following feature are enabled IPsec feature

Attribute Name: sequence-id

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">

```

```

<crypto-maps>
<crypto-map>
  <name>MAP-NAME</name>
  <config>
    <name>WORD</name>
  </config>
</sessions>
<session> <!-- operation="delete"-->
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
</session>
</sessions>
</crypto-map>
</crypto-maps>
</ipsec>

```

Command Syntax

```
sequence <1-65535>
```

Configure transform-sets transform-set-name

Map session transform-set name

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<crypto-maps>
<crypto-map>
  <name>MAP-NAME</name>
  <config>
    <name>WORD</name>
  </config>
</sessions>
<session>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
  <transform-sets>
  <transform-set> <!-- operation="delete"-->
    <transform-set-name>NAME</transform-set-name>
    <config>
      <transform-set-name>WORD</transform-set-name>
    </config>
  </transform-set>
  </transform-sets>
</session>
</crypto-maps>
</ipsec>

```



```

    </config>
  </transform-set>
</transform-sets>
</session>
</sessions>
</crypto-map>
</crypto-maps>
</ipsec>

```

Command Syntax

```
set transform-set NAME
```

Configure peer

Map session peer IP address

This command is supported when following feature are enabled IPsec feature

Attribute Name: peer

Attribute Type: inet:ip-address

Attribute Name: spi

Attribute Type: uint16

Netconf edit-config payload

```

<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <crypto-maps>
    <crypto-map>
      <name>MAP-NAME</name>
      <config>
        <name>WORD</name>
      </config>
    </crypto-map>
  </crypto-maps>
  <sessions>
    <session>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <peer-addresses>
        <peer-address> <!-- operation="delete"-->
          <peer>A.B.C.D</peer>
          <config>
            <peer>CML_IP_ADDR_T</peer>
            <spi>0</spi>
          </config>
        </peer-address>
      </peer-addresses>
    </session>
  </sessions>
</ipsec>

```

```
</ipsec>
```

Command Syntax

```
set peer (A.B.C.D|X:X::X:X) (spi <0-4096>|)
```

Configure security parameter index

Crypto Map session key security parameter index (SPI)

This command is supported when following feature are enabled IPsec feature

Attribute Name: security-parameter-index

Attribute Type: uint16

Attribute Range: 0-4096

Attribute Name: cipher

Attribute Type: string

Attribute Range: 1-128

Attribute Name: authentication-key

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <crypto-maps>
    <crypto-map>
      <name>MAP-NAME</name>
      <config>
        <name>WORD</name>
      </config>
    <sessions>
      <session>
        <sequence-id>1</sequence-id>
        <config>
          <sequence-id>1</sequence-id>
        </config>
        <session-keys>
          <session-key> <!-- operation="delete"-->
            <security-parameter-index>0</security-parameter-index>
            <config>
              <security-parameter-index>0</security-parameter-index>
              <protocol>esp</protocol>
              <direction>inbound</direction>
              <cipher>HEX-KEY-DATA</cipher>
              <authentication-key>HEX-KEY-DATA</authentication-key>
            </config>
            <protocol>esp</protocol>
            <direction>inbound</direction>
          </session-key>
        </session-keys>
      </session>
    </sessions>
  </crypto-map>
</crypto-maps>
</ipsec>
```

```

</session-keys>
</session>
</sessions>
</crypto-map>
</crypto-maps>
</ipsec>

```

Command Syntax

```

set session-key (inbound|outbound) (esp) <0-4096> cipher HEX-KEY-DATA authenticator
    HEX-KEY-DATA

```

IPI-EVPN-SRV6

Configure enabled

Use this attribute to enable EVPN-SRV6 module. Without this attribute evpn srv6 functionality can not be achieved

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```

<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<global>
<config>
    </enabled>
</config>
</global>
</evpn-srv6>

```

Command Syntax

```

evpn srv6 enable

```

Configure vtep ipv6 address

Use this attribute to set source vtep global ip address. This will be treated at evpn srv6 tunnel source address

Attribute Name: vtep-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```

<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<global>
<config>
    <vtep-ipv6-address>X:X::X:X</vtep-ipv6-address> <!-- operation="delete"-->
</config>
</global>
</evpn-srv6>

```

Command Syntax

```
evpn srv6 ip-global X:X::X:X
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Attribute Range: 10-572

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <global>
    <config>
      <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
    </config>
  </global>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 mac-ageing-time <10-572>
```

Configure arp nd refresh time

Use this attribute to configure aging out the arp-cache and nd-cache entries

Attribute Name: arp-nd-refresh-time

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <arp-nd-global>
    <config>
      <arp-nd-refresh-time>3</arp-nd-refresh-time> <!-- operation="delete"-->
    </config>
  </arp-nd-global>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 arp-nd refresh-timer <3-190>
```

Configure tenant identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant> <!-- operation="delete"-->
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 id <1-16777215>
```

Configure vpws identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        <vpws-identifier>1</vpws-identifier>
      </config>
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 id <1-16777215> xconnect target-srv6-id <1-16777215>
```

Configure vrf name

Use this attribute to map vrf to carry EVPN routes

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <vrf-name>VRF-NAME</vrf-name> <!-- operation="delete"-->
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

```
host-reachability-protocol evpn-bgp VRF-NAME
```

Configure mac holdtime

Use this attribute to set the time a host mac entry will persist after unconfig

Attribute Name: mac-holdtime

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
        <mac-holdtime>-1</mac-holdtime> <!-- operation="delete"-->
      </config>
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure tenant description

Use this attribute to set evpn-srv6 tenant identifier name

Attribute Name: tenant-description

Attribute Type: string

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

evi-name WORD

Configure tunnel policy name

Transport Tunnel Selection Policy

Attribute Name: tunnel-policy-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <tunnel-policy-name>WORD</tunnel-policy-name> <!-- operation="delete"-->
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

tunnel-select-policy WORD

Configure srv6 locator name

Locator name

Attribute Name: srv6-locator-name

Attribute Type: string

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenants>
    <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
        <tenant-identifier>1</tenant-identifier>
      </config>
      <srv6-locator-name>WORD</srv6-locator-name> <!-- operation="delete"-->
    </tenant>
  </tenants>
</evpn-srv6>
```

Command Syntax

```
locator WORD
```

clear mac address-table dynamic evpn-srv6**Netconf RPC payload**

```
<clear-nvo-srv6-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6"/>
```

Command Syntax

```
clear mac address-table dynamic evpn-srv6
```

clear mac address-table dynamic evpn-srv6 evid <1-16777215> (address MACADDR|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
<clear-nvo-srv6-dynamic-mac-address-table-evid xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
  <tenant-identifier>1</tenant-identifier>
  <mac-address>MACADDR</mac-address>
</clear-nvo-srv6-dynamic-mac-address-table-evid>
```

Command Syntax

```
clear mac address-table dynamic evpn-srv6 evid <1-16777215> (address MACADDR|)
```

clear evpn srv6 counters (vpn-id <1-16777215>|) network (egress) (dst X:X::X:X|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: egress-direction

Attribute Type: enum (egress)

Attribute Name: destination-ip

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
<clear-evpn-srv6-egress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-srv6">
  <tenant-identifier>l</tenant-identifier>
  <egress-direction>egress</egress-direction>
  <destination-ip>X:X::X:X</destination-ip>
</clear-evpn-srv6-egress-counters>
```

Command Syntax

```
clear evpn srv6 counters (vpn-id <1-16777215>|) network (egress) (dst X:X::X:X|)
```

clear evpn srv6 counters (vpn-id <1-16777215>|) network (ingress)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: ingress-direction

Attribute Type: enum (ingress)

Netconf RPC payload

```
<clear-evpn-srv6-ingress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-srv6">
  <tenant-identifier>l</tenant-identifier>
  <ingress-direction>ingress</ingress-direction>
</clear-evpn-srv6-ingress-counters>
```

Command Syntax

```
clear evpn srv6 counters (vpn-id <1-16777215>|) network (ingress)
```

IPI-SEGMENT-ROUTING-ODN

Configure color

Color associated with ODN

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop> <!-- operation="delete"-->
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
on-demand-nexthop <1-4294967295>
```

Configure flex algo

Flex algo value associated with ODN instance

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: flex-algo

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

```

    </config>
    <flex-algo>128</flex-algo> <!-- operation="delete"-->
  </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
flex-algo <128-255>
```

Configure cspf retry limit

Limit on the number of times a dynamic candidate path will retry to calculate segment-list

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: cspf-retry-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <cspf-retry-limit>1</cspf-retry-limit> <!-- operation="delete"-->
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>

```

Command Syntax

```
cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Interval between two successive retries for calculating segment list of a dynamic candidate path using CSPF

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Attribute Range: 1-600

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
cspf-retry-interval <1-600>
```

Configure binding sid label

Configurable Value for static binding SID

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: binding-sid-label

Attribute Type: uint16

Attribute Range: 16-15999

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <binding-sid-label>16</binding-sid-label> <!-- operation="delete"-->
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
binding-sid mpls label <16-15999>
```

Configure fallback native sr

To enable fallback mechanism for flex-algorithm with Native-SR

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: fallback-native-sr

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      </on-demand-nexthop><!-- operation="delete"-->
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
fallback native-sr
```

Configure fallback flex algo

To enable fallback mechanism for flex-algorithm with secondary flex-algo FTN

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: fallback-flex-algo

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <fallback-flex-algo>128</fallback-flex-algo> <!-- operation="delete"-->
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
fallback flex-algo <128-255>
```

Configure discriminator

Candidate path distinguisher, it's taken as a unique identifier for a Local candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: discriminator

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path <!-- operation="delete"-->
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </candidate-path>
        </candidate-paths>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
candidate-path <1-65535>
```

Configure preference

Candidate path preference

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: preference

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
            <preference>1</preference> <!-- operation="delete"-->
          </candidate-path>
        </candidate-paths>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
preference <1-65535>
```

Configure pcep

Dynamic candidate path properties of PCEP

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pcep

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
```

```

<config>
  <color>1</color>
</config>
<candidate-paths>
<candidate-path>
  <originator>WORD</originator>
  <config>
    <originator>WORD</originator>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </config>
  <protocol-origin>pcep</protocol-origin>
  <discriminator>1</discriminator>
<dynamic>
<config>
  </pcep><!-- operation="delete"-->
</config>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path pcep
```

Configure isis instance id

Dynamic candidate path properties of ISIS

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: isis-instance-id

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
  <on-demand-nexthops>
  <on-demand-nexthop>
    <color>1</color>
    <config>
      <color>1</color>
    </config>
  <candidate-paths>
  <candidate-path>

```



```

    <originator>WORD</originator>
    <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
    </config>
    <protocol-origin>pcep</protocol-origin>
    <discriminator>1</discriminator>
  </dynamic>
  <config>
    <isis-instance-id>WORD</isis-instance-id> <!-- operation="delete"-->
  >

    </config>
  </dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path isis (WORD|)
```

Configure ospf process id

Dynamic candidate path properties of OSPF with process-id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ospf-process-id

Attribute Type: int32

Attribute Range: 0-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
        </candidate-path>
      </candidate-paths>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>

```

```

    </config>
    <protocol-origin>pcep</protocol-origin>
    <discriminator>1</discriminator>
  </dynamic>
  <config>
    <ospf-process-id>0</ospf-process-id> <!-- operation="delete"-->
  </config>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path ospf <0-65535>
```

Configure ospf empty

Dynamic candidate path properties of OSPF without process-id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ospf-empty

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        </dynamic>
        <config>
          </ospf-empty><!-- operation="delete"-->
        </config>
      </candidate-path>
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

    </dynamic>
  </candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dynamic-path ospf
```

Configure enable

Enable constraints for the candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>local</protocol-origin>
          <discriminator>1</discriminator>
        <dynamic>
          <constraints>
            <config>
              <enable>
            </enable>
            </config>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </on-demand-nexthop>
</on-demand-nexthops>

```

```
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
constraints
```

Configure protocol origin

Enable constraints for the candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
  <on-demand-nexthops>
    <on-demand-nexthop>
      <color>1</color>
      <config>
        <color>1</color>
      </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          <dynamic>
            <constraints>
              <config>
                </enable>
              </config>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
enable
```

Configure hop limit

Use this attribute to specify a limit of hops for candidate-path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
            <dynamic>
              <constraints>
                <config>
                  <hop-limit>1</hop-limit> <!-- operation="delete"-->
                </config>
              </constraints>
            </dynamic>
          </candidate-path>
        </candidate-paths>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
hop-limit <1-32>
```

Configure metric type

Metric type can be IGP or TE

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: metric-type

Attribute Type: enum (igp|te|latency)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          </dynamic>
          <constraints>
            <bounds>
              <bound> <!-- operation="delete"-->
                <metric-type>igp</metric-type>
                <config>
                  <metric-type>igp</metric-type>
                </config>
              </bound>
            </bounds>
          </constraints>
        </dynamic>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency)
```

Configure bound

Path is invalid if its metric exceeds this value, If no value is specified

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: bound

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
          </dynamic>
          <constraints>
            <bounds>
              <bound>
                <metric-type>igp</metric-type>
                <config>
                  <metric-type>igp</metric-type>
                </config>
                <bound>1</bound> <!-- operation="delete"-->
              </bound>
            </bounds>
          </constraints>
        </dynamic>
      </candidate-path>
    </candidate-paths>
  </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency) bound <1-4294967295>
```

Configure admin group name

admin group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </candidate-path>
          <dynamic>
            <constraints>
              <affinity-admin-groups>
                <affinity-admin-group> <!-- operation="delete"-->
                  <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
                  <config>
                    <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
                    <affinity-type>exclude-any</affinity-type>
                  </config>
                </affinity-admin-group>
              </affinity-admin-groups>
            </constraints>
          </dynamic>
        </candidate-path>
      </candidate-paths>
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```


Command Syntax

```
affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure extended admin group name

extended-admin group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: extended-admin-group-name

Attribute Type: string

Attribute Name: extended-admin-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </dynamic>
          <constraints>
            <affinity-extended-admin-groups>
              <affinity-extended-admin-group> <!-- operation="delete"-->
                <extended-admin-group-name>ADMIN-GROUP-NAME</extended-admin-group-
name>
                <config>
                  <extended-admin-group-name>EXTENDE-ADMIN-GROUP-NAME</extended-
admin-group-name>
                  <extended-admin-affinity-type>exclude-any</extended-admin-affinity-
type>
                </config>
              </affinity-extended-admin-group>
            </affinity-extended-admin-groups>
          </constraints>
        </dynamic>
```

```

</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
extended-affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure srlg group name

SRLG group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: srlg-group-name

Attribute Type: string

Attribute Name: srlg-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
  <on-demand-nexthops>
  <on-demand-nexthop>
    <color>1</color>
    <config>
      <color>1</color>
    </config>
  <candidate-paths>
  <candidate-path>
    <originator>WORD</originator>
    <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
    </config>
    <protocol-origin>local</protocol-origin>
    <discriminator>1</discriminator>
  </dynamic>
  <constraints>
  <srlg-groups>
  <srlg-group> <!-- operation="delete"-->
    <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
    <config>
      <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
      <srlg-affinity-type>exclude-any</srlg-affinity-type>
    </config>
  </srlg-group>
  </srlg-groups>
  </constraints>
  </dynamic>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

        </srlg-group>
    </srlg-groups>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
srlg-affinity (exclude-any|include-any|include-all) SRLG-GROUP-NAME
```

Configure address

Hop address which needs to be included in the LSP

This command is supported when following features are enabled: Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: address

Attribute Type: inet:ip-address

Attribute Name: type

Attribute Type: enum (loose|strict)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <candidate-paths>
          <candidate-path>
            <originator>WORD</originator>
            <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
            </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </candidate-path>
        </candidate-paths>
      </on-demand-nexthop>
    </on-demand-nexthops>
    <dynamic>
      <constraints>
        <ip>
          <include-hops>
            <include-hop> <!-- operation="delete"-->

```

```

        <address>A.B.C.D/X:X::X:X</address>
        <config>
            <address>A.B.C.D/X:X::X:X</address>
            <type>loose</type>
        </config>
    </include-hop>
</include-hops>
</ip>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

A.B.C.D/X:X::X:X (loose|strict|)

Configure ihaf address

IP Hop address which needs to be included/excluded in the LSP path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ihaf-address

Attribute Type: inet:ip-address

Attribute Name: ihaf-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
    <candidate-paths>
    <candidate-path>
        <originator>WORD</originator>
        <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
        </config>
        <protocol-origin>local</protocol-origin>
    </candidate-path>
    </candidate-paths>
    </on-demand-nexthop>
    </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

        <discriminator>1</discriminator>
    </dynamic>
    <constraints>
    <ip-address-filters>
    <ip-address-filter> <!-- operation="delete"-->
        <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
        <config>
            <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
            <ihaf-affinity-type>exclude-any</ihaf-affinity-type>
        </config>
    </ip-address-filter>
    </ip-address-filters>
    </constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

A.B.C.D/X:X::X:X (exclude-any|include-any|include-all)

Configure originator

Enable segment constraints for the dynamic candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
    <candidate-paths>
    <candidate-path>
        <originator>WORD</originator>
        <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
        </config>
    </candidate-path>
    </candidate-paths>
    </on-demand-nexthop>
    </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    </dynamic>
    <constraints>
        <segment-rule>
            <config>
                </enable>
            </config>
        </segment-rule>
    </constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

segment-rule

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        </dynamic>
      </candidate-path>
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

        <constraints>
        <segment-rule>
        <config>
            </enable>
        </config>
    </segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
enable
```

Configure dataplane type

SR policy dynamic candidate path's data-plane type

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: dataplane-type

Attribute Type: enum (mpls|srv6)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
    <candidate-paths>
    <candidate-path>
        <originator>WORD</originator>
        <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
        </config>
        <protocol-origin>pcep</protocol-origin>
        <discriminator>1</discriminator>
    </dynamic>
    <constraints>
    <segment-rule>
    <property>

```

```

        <config>
            <dataplane-type>mpls</dataplane-type> <!-- operation="delete"-->
        </config>
    </property>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
dataplane (mpls|srv6)
```

Configure sid algorithm

Flexible Algorithm Number

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sid-algorithm

Attribute Type: uint32

Attribute Range: 128-255

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <candidate-paths>
        <candidate-path>
          <originator>WORD</originator>
          <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
          </config>
          <protocol-origin>pcep</protocol-origin>
          <discriminator>1</discriminator>
        </dynamic>
      <constraints>
    </segment-rule>
  </traffic-engineering>
</segment-routing>

```



```

        <property>
        <config>
            <sid-algorithm>128</sid-algorithm> <!-- operation="delete"-->
        </config>
    </property>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
sid-algorithm <128-255>
```

Configure protection type

SR policy dynamic candidate path's protection type

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: protection-type

Attribute Type: enum (protected-only|protected-prefered|unprotected-only|unprotected-prefered)

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
    <candidate-paths>
    <candidate-path>
        <originator>WORD</originator>
        <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
        </config>
        <protocol-origin>pcep</protocol-origin>
        <discriminator>1</discriminator>
    </dynamic>
    <constraints>
    <segment-rule>
    <property>

```

```

        <config>
            <protection-type>protected-only</protection-type> <!--
operation="delete"-->
        </config>
    </property>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```

protection (protected-only|protected-prefered|unprotected-only|unprotected-
prefered)

```

Configure sub id

Disjoint path sub-group id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path>
            <originator>WORD</originator>
            <config>
                <originator>WORD</originator>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
            </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
        </dynamic>
    </constraints>

```

```

    <disjoint-paths>
    <disjoint-path>
      <disjoint-type>link</disjoint-type>
      <config>
        <disjoint-type>link</disjoint-type>
        <group-id>1</group-id>
      </config>
      <group-id>1</group-id>
      <sub-id>1</sub-id>
    </disjoint-path>
  </disjoint-paths>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
disjoint-path group-id <1-65535> type (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure group id

Disjoint path sub-group id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
  <on-demand-nexthops>
  <on-demand-nexthop>
    <color>1</color>
    <config>
      <color>1</color>
    </config>
  <candidate-paths>
  <candidate-path>
    <originator>WORD</originator>
    <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
    </config>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

```

    </config>
    <protocol-origin>pcep</protocol-origin>
    <discriminator>1</discriminator>
  <dynamic>
    <constraints>
      <disjoint-paths>
        <disjoint-path>
          <disjoint-type>link</disjoint-type>
          <config>
            <disjoint-type>link</disjoint-type>
            <group-id>1</group-id>
          </config>
          <group-id>1</group-id>
          <sub-id>1</sub-id> <!-- operation="delete"-->
        </disjoint-path>
      </disjoint-paths>
    </constraints>
  </dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
<1-65535> (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure pce state report

To only report all the configured candidate path of policy to PCE controller

This command is supported when following feature are enabled PCEP-SR feature, Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <pce>
          <config>
            <pce-state-report><!-- operation="delete"-->
          </config>

```

```

    </pce>
  </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
pce state-report
```

Configure pce entity id

Entity Id of PCEP entity to which this policy should be queried/reported/delegated

This command is supported when following feature are enabled PCEP-SR feature, Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-entity-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
        <pce>
          <config>
            <pce-entity-id>1</pce-entity-id> <!-- operation="delete"-->
          </config>
        </pce>
      </on-demand-nexthop>
    </on-demand-nexthops>
  </traffic-engineering>
</segment-routing>

```

Command Syntax

```
pce entity <1-255>
```

Configure pce lsp delegate

To delegate all the configured candidate path of policy to PCE controller

This command is supported when following feature are enabled PCEP-SR feature, Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```

<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
    <on-demand-nexthops>
      <on-demand-nexthop>
        <color>1</color>
        <config>
          <color>1</color>
        </config>
      <pce>
        <config>
          </pce-lsp-delegate><!-- operation="delete"-->
        </config>
      </pce>
    </on-demand-nexthop>
  </on-demand-nexthops>
</traffic-engineering>
</segment-routing>

```

Command Syntax

```
pce lsp-delegate
```

IPI-VM

Configure bridge name

Name of the VM bridge

Attribute Name: bridge-name

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```

<vm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <vm-bridges>
    <vm-bridge> <!-- operation="delete"-->
      <bridge-name>VM-BRIDGE-NAME</bridge-name>
      <config>
        <bridge-name>VM-BRIDGE-NAME</bridge-name>
      </config>
    </vm-bridge>
  </vm-bridges>
</vm>

```

Command Syntax

```
vm-bridge-create VM-BRIDGE-NAME
```

Configure tpid

Set control channel tpid

Attribute Name: tpid

Attribute Type: string

Attribute Name: vlan

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<vm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <control-channel>
    <config>
      <vlan>1</vlan>
      <tpid>TPID</tpid>
    </config>
  </control-channel>
</vm>
```

Command Syntax

```
control-channel vlan <1-4095> tpid TPID
```

Configure from match type

match-ip or source-interface

Attribute Name: from-match-type

Attribute Type: enum (match-ip|source-interface)

Netconf edit-config payload

```
<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <dnat>
    <dnat-vrf> <!-- operation="delete"-->
      <vrf-name>VRF-NAME</vrf-name>
      <config>
        <vrf-name>VRF-NAME</vrf-name>
        <to-port-num>-1</to-port-num>
        <from-port-num>-1</from-port-num>
        <protocol>tcp</protocol>
        <to-ip-addr>A.B.C.D</to-ip-addr>
        <from-match-value>A.B.C.D|IFNAME</from-match-value>
        <from-match-type>match-ip</from-match-type>
      </config>
      <to-port-num>-1</to-port-num>
      <from-port-num>-1</from-port-num>
      <protocol>tcp</protocol>
      <to-ip-addr>A.B.C.D</to-ip-addr>
      <from-match-value>A.B.C.D|IFNAME</from-match-value>
```

```

    <from-match-type>match-ip</from-match-type>
  </dnat-vrf>
</dnat>
</nat>

```

Command Syntax

```

nat dnat (source-interface) IFNAME to A.B.C.D protocol (tcp|udp) sport-num <-1-
65535> dport-num <-1-65535> (vrf VRF-NAME|)

```

Configure from match value

match-ip or source-interface

Attribute Name: from-match-type

Attribute Type: enum (match-ip|source-interface)

Netconf edit-config payload

```

<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <dnat>
    <dnat-vrf> <!-- operation="delete"-->
      <vrf-name>VRF-NAME</vrf-name>
      <config>
        <vrf-name>VRF-NAME</vrf-name>
        <to-port-num>-1</to-port-num>
        <from-port-num>-1</from-port-num>
        <protocol>tcp</protocol>
        <to-ip-addr>A.B.C.D</to-ip-addr>
        <from-match-value>A.B.C.D|IFNAME</from-match-value>
        <from-match-type>match-ip</from-match-type>
      </config>
      <to-port-num>-1</to-port-num>
      <from-port-num>-1</from-port-num>
      <protocol>tcp</protocol>
      <to-ip-addr>A.B.C.D</to-ip-addr>
      <from-match-value>A.B.C.D|IFNAME</from-match-value>
      <from-match-type>match-ip</from-match-type>
    </dnat-vrf>
  </dnat>
</nat>

```

Command Syntax

```

nat dnat (match-ip) A.B.C.D to A.B.C.D protocol (tcp|udp) sport-num <-1-65535>
dport-num <-1-65535> (vrf VRF-NAME|)

```

Configure vrf name

VRF Name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <snat>
    <snat-vrf> <!-- operation="delete"-->
      <vrf-name>VRF-NAME</vrf-name>
      <config>
        <vrf-name>VRF-NAME</vrf-name>
        <to-ip-addr>A.B.C.D|IFNAME</to-ip-addr>
        <from-ip-addr>A.B.C.D/M</from-ip-addr>
      </config>
      <to-ip-addr>A.B.C.D|IFNAME</to-ip-addr>
      <from-ip-addr>A.B.C.D/M</from-ip-addr>
    </snat-vrf>
  </snat>
</nat>
```

Command Syntax

```
nat snat from A.B.C.D/M to (A.B.C.D|IFNAME) (vrf VRF-NAME|)
```

Configure enable feature

Global command to enable Guest-VM feature

Attribute Name: enable-feature

Attribute Type: boolean

Netconf edit-config payload

```
<guestVm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
  <config>
    <enable-feature>true</enable-feature>
  </config>
</guestVm>
```

Command Syntax

```
feature guest-vm enable
```

IPI-HOST

Configure disable service advanced vty

Use this attribute to enable advanced mode vty interface.

This command is supported when following feature are enabled IMI feature

Attribute Name: disable-service-advanced-vty

Attribute Type: uint8

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    </disable-service-advanced-vty><!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
no service advanced-vty
```

Configure service passwd encryption

Use this attribute to enable password encryption.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-passwd-encryption

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <service-passwd-encryption>true</service-passwd-encryption> <!--
operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
service password-encryption
```

Configure system-host service-passwd-encryption

Use this attribute to enable password encryption.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-passwd-encryption

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <service-passwd-encryption>true</service-passwd-encryption> <!--
operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
no service password-encryption
```

Configure passwd encrypted

Use this attribute to provide encrypted password.

This command is supported when following feature are enabled IMI feature

Attribute Name: passwd-encrypted

Attribute Type: uint8

Attribute Name: system-enable-passwd

Attribute Type: string

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <system-enable-passwd>LINE</system-enable-passwd> <!-- operation="delete"-->
    </passwd-encrypted><!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
enable password (8|) LINE
```

Configure term monitor default behavior disable

Use this attribute to control terminal monitor initial behavior as disable when user session starts. The executive command terminal monitor has precedence over configuration command.

This command is supported when following feature are enabled IMI feature

Attribute Name: term-monitor-default-behavior-disable

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    </term-monitor-default-behavior-disable><!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
no terminal monitor default
```

Configure banner motd

Use this attribute to set the login banner for the OcNOS device.

This command is supported when following feature are enabled IMI feature

Attribute Name: banner-motd

Attribute Type: union

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <banner-motd>CML_BANNER_T</banner-motd>
  </config>
</system-host>
```

Command Syntax

```
banner motd (LINE|default|none)
```

Configure banner motd file

Use this attribute to set the filename containing the banner message

This command is supported when following feature are enabled IMI feature

Attribute Name: banner-motd-file

Attribute Type: string

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <banner-motd-file>FILENAME</banner-motd-file> <!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
banner motd file FILENAME
```

Configure service term length

Use this attribute to set system wide terminal length.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-term-length

Attribute Type: uint16

Attribute Range: 0-512

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    <service-term-length>0</service-term-length> <!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
service terminal-length <0-512>
```

Configure disable default autoenable

Use this attribute to disable auto enable feature based on the user role which is happening by default for remote authentication.

This command is supported when following feature are enabled IMI feature

Attribute Name: disable-default-autoenable

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    </disable-default-autoenable><!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
disable default auto-enable
```

Configure term timestamping

Use this attribute to enable CLI prompt timestamping during terminal initialization.

This command is supported when following feature are enabled IMI feature

Attribute Name: term-timestamping

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
  <config>
    </term-timestamping><!-- operation="delete"-->
  </config>
</system-host>
```

Command Syntax

```
terminal default timestamping
```

IPI-TWAMP-CLIENT

Configure enable

Enables TWAMP Client

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <config>
      </enable>
    </config>
  </client>
</twamp>
```

Command Syntax

```
twamp client
```

Configure maximum sessions

Maximum number of test sessions for the whole client node (default = 64)

Attribute Name: maximum-sessions

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <config>
      <maximum-sessions>1</maximum-sessions> <!-- operation="delete"-->
    </config>
  </client>
</twamp>
```

Command Syntax

```
maximum-sessions <1-2000>
```

Configure maximum connections

The maximum number of connections that can be created systemwide

Attribute Name: maximum-connections

Attribute Type: uint8

Attribute Range: 1-64

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <config>
      <maximum-connections>1</maximum-connections> <!-- operation="delete"-->
    </config>
  </client>
```

```
</twamp>
```

Command Syntax

```
maximum-connections <1-64>
```

Configure maximum sessions per connection

Maximum number of test sessions per connection (default = 1)

Attribute Name: maximum-sessions-per-connection

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <config>
      <maximum-sessions-per-connection>1</maximum-sessions-per-connection> <!--
operation="delete"-->
    </config>
  </client>
</twamp>
```

Command Syntax

```
maximum-sessions-per-connection <1-2000>
```

Configure connection name

Sets client connection Name

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <connections>
      <connection> <!-- operation="delete"-->
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <connection-name>NAME</connection-name>
        </config>
        <connection-name>NAME</connection-name>
      </connection>
    </connections>
  </client>
</twamp>
```

Command Syntax

```
connection NAME (vrf-name NAME|)
```

Configure server address

Configure twamp server address to connect with client

Attribute Name: server-address

Attribute Type: union

Attribute Name: server-port

Attribute Type: union

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <client>
    <connections>
      <connection>
        <vrf-name>NAME</vrf-name>
        <config>
          <vrf-name>WORD</vrf-name>
          <connection-name>NAME</connection-name>
          <server-port>862</server-port> <!-- operation="delete"-->
        </config>
        <connection-name>NAME</connection-name>
        <server-address>TWAMP_HOSTNAME_T</server-address>
      </connection>
    </connections>
  </client>
</twamp>
```

Command Syntax

```
server (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (port (862|<1025-65535>)|)
```

twamp client start connection NAME (vrf WORD|) packet-count <0-1000000>

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: packet-count

Attribute Type: uint32

Attribute Range: 0-1000000

Netconf RPC payload

```
<ipi-twamp-client_twamp-client-start-connection xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <connection-name>NAME</connection-name>
  <vrf-name>WORD</vrf-name>
  <packet-count>0</packet-count>
</ipi-twamp-client_twamp-client-start-connection>
```

Command Syntax

```
twamp client start connection NAME (vrf WORD|) packet-count <0-1000000>
```

twamp client stop connection NAME (vrf WORD|)

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-twamp-client_twamp-client-stop-connection xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-twamp">
  <connection-name>NAME</connection-name>
  <vrf-name>WORD</vrf-name>
</ipi-twamp-client_twamp-client-stop-connection>
```

Command Syntax

```
twamp client stop connection NAME (vrf WORD|)
```

twamp client reset connection NAME (session NAME|) (vrf WORD|)

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ipi-twamp-client_twamp-client-reset-session xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-twamp">
```

```
<connection-name>NAME</connection-name>
<session-name>NAME</session-name>
<vrf-name>WORD</vrf-name>
</ipi-twamp-client_twamp-client-reset-session>
```

Command Syntax

```
twamp client reset connection NAME (session NAME|) (vrf WORD|)
```

IPI-MAX-SESSION-CLI

Configure max session limit

Use this attribute to set maximum session limit for vty.

Attribute Name: max-session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
  <max-session-limit>
    <config>
      <max-session-limit>1</max-session-limit> <!-- operation="delete"-->
    </config>
  </max-session-limit>
</user-session>
```

Command Syntax

```
max-session <1-40>
```

IPI-TWAMP-SESSION

Configure session name

TWAMP End-to-End Session name

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session> <!-- operation="delete"-->
      <session-name>WORD</session-name>
```

```
<config>
  <session-name>WORD</session-name>
</config>
</session>
</sessions>
</twamp>
```

Command Syntax

```
twamp session WORD
```

Configure enabled

Use this attribute to shut/unshut a TWAMP Session

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      </enabled><!-- operation="delete"-->
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
no shut
```

Configure description

Use this attribute to add a description to TWAMP Session

Attribute Name: description

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
    </session>
  </sessions>
</twamp>
```

```
        <description>LINE</description> <!-- operation="delete"-->
</session>
</sessions>
</twamp>
```

Command Syntax

```
description LINE
```

Configure reflector ip

Use this attribute to set the reflector IP.

Attribute Name: reflector-ip

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
    <session-name>WORD</session-name>
    <config>
        <session-name>WORD</session-name>
    </config>
    <parameters>
    <config>
        <reflector-ip>1</reflector-ip> <!-- operation="delete"-->
    </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
reflector-ip (HOSTNAME|A.B.C.D)
```

Configure reflector port

Use this attribute to set the reflector port.

Attribute Name: reflector-port

Attribute Type: union

Default Value: 862

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
    <session-name>WORD</session-name>
```

```
<config>
  <session-name>WORD</session-name>
</config>
<parameters>
  <config>
    <reflector-port>862</reflector-port> <!-- operation="delete"-->
  </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
reflector-port (862|<1025-65535>)
```

Configure sender ip

Use this attribute to set the sender IP.

Attribute Name: sender-ip

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <sender-ip>1</sender-ip> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
sender-ip (HOSTNAME|A.B.C.D)
```

Configure sender port

Use this attribute to set the sender port.

Attribute Name: sender-port

Attribute Type: union

Default Value: 862

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <sender-port>862</sender-port> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
sender-port (862|<1025-65535>)
```

Configure vrf name

Set the VRF name for this TWAMP Session.

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

vrf-name WORD

Configure vpn net interface

Set the VPN network interface for this TWAMP Session.

Attribute Name: vpn-net-interface

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <vpn-net-interface>WORD</vpn-net-interface> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

vpn-net-interface WORD

Configure dscp

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp

Attribute Type: string

Default Value: 0

Attribute Range: 1-8

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
    </session>
  </sessions>
</twamp>
```

```

    </config>
    <parameters>
    <config>
        <dscp>WORD</dscp> <!-- operation="delete"-->
    </config>
</parameters>
</session>
</sessions>
</twamp>

```

Command Syntax

dscp WORD

Configure burst interval

Configure the burst interval

Attribute Name: burst-interval

Attribute Type: uint16

Default Value: 3000

Attribute Range: 1000-15000

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
    <session-name>WORD</session-name>
    <config>
        <session-name>WORD</session-name>
    </config>
    <parameters>
    <config>
        <burst-interval>1000</burst-interval> <!-- operation="delete"-->
    </config>
</parameters>
</session>
</sessions>
</twamp>

```

Command Syntax

burst-interval <1000-15000>

Configure burst count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-10

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <burst-count>1</burst-count> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
burst-count <1-10>
```

Configure interval

Configure the computation interval

Attribute Name: interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 30-3600

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <parameters>
        <config>
          <interval>30</interval> <!-- operation="delete"-->
        </config>
      </parameters>
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
interval <30-3600>
```

Configure notification enabled

Enable the notifications for advertising via NETCONF/SNMP Traps when thresholds are crossed

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <notification>
        <config>
          </enabled><!-- operation="delete"-->
        </config>
      </notification>
    </session>
  </sessions>
</twamp>
```

Command Syntax

```
notification enabled
```

Configure threshold

Configure the notifications advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Default Value: 30

Attribute Range: 1-100

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <notification>
        <config>
```

```

        <threshold>1</threshold> <!-- operation="delete"-->
    </config>
</notification>
</session>
</sessions>
</twamp>

```

Command Syntax

```
notification threshold <1-100>
```

Configure minimum change

Configure the notifications advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-10000

Netconf edit-config payload

```

<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
  <sessions>
    <session>
      <session-name>WORD</session-name>
      <config>
        <session-name>WORD</session-name>
      </config>
      <notification>
        <config>
          <minimum-change>0</minimum-change> <!-- operation="delete"-->
        </config>
      </notification>
    </session>
  </sessions>
</twamp>

```

Command Syntax

```
notification minimum-change <0-10000>
```

clear twamp session WORD

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-32

Netconf RPC payload

```

<ipi-twamp-session_twamp-session-clear-measurement xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp">

```

```
<session-name>WORD</session-name>
</ipi-twamp-session_twamp-session-clear-measurement>
```

Command Syntax

```
clear twamp session WORD
```

clear twamp session all

Netconf RPC payload

```
<ipi-twamp-session_twamp-session-clear-measurement-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp"/>
```

Command Syntax

```
clear twamp session all
```

IPI-MAC-LIMIT

Configure mac lim profile name

Instance MAC limit config

Attribute Name: mac-lim-profile-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
<mac-limit-profiles>
<mac-limit-profile-inst> <!-- operation="delete"-->
  <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
  <config>
    <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
  </config>
</mac-limit-profile-inst>
</mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
mac-limit-profile PROFILENAME
```

Configure learning limit

Number of MAC limit supported

Attribute Name: learning-limit

Attribute Type: uint32

Default Value: 131071

Attribute Range: 1-131071

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
  <mac-limit-profiles>
    <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
        <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <learning-limit>1</learning-limit> <!-- operation="delete"-->
    </mac-limit-profile-inst>
  </mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
learning-limit <1-131071>
```

Configure action

MAC limit action

Attribute Name: action

Attribute Type: enum (log-only|log-errdisable)

Default Value: log-only

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
  <mac-limit-profiles>
    <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
        <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <action>log-only</action> <!-- operation="delete"-->
    </mac-limit-profile-inst>
  </mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
action (log-only|log-errdisable)
```

Configure high watermark

High watermark for logging

Attribute Name: high-watermark

Attribute Type: uint16

Default Value: 90

Attribute Range: 1-100

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
  <mac-limit-profiles>
    <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
        <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <high-watermark>1</high-watermark> <!-- operation="delete"-->
    </mac-limit-profile-inst>
  </mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
high-watermark <1-100>
```

Configure low watermark

Low watermark for logging

Attribute Name: low-watermark

Attribute Type: uint16

Default Value: 70

Attribute Range: 1-100

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
  <mac-limit-profiles>
    <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
        <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <low-watermark>1</low-watermark> <!-- operation="delete"-->
    </mac-limit-profile-inst>
  </mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
low-watermark <1-100>
```

Configure errdisable timeout interval

Error disable timeout interval

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
  <mac-limit-profiles>
    <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
        <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
    </mac-limit-profile-inst>
  </mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
errdisable-timeout <0-86400>
```

IPI-MAC-LIST

Configure mac list name

mac-list name

Attribute Name: mac-list-name

Attribute Type: string

Netconf edit-config payload

```
<mac-addresses xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-list">
  <mac-address> <!-- operation="delete"-->
    <mac-list-name>WORD</mac-list-name>
  <config>
    <mac-list-name>WORD</mac-list-name>
  </config>
</mac-address>
</mac-addresses>
```

Command Syntax

```
mac-list WORD
```

Configure mac addr mask

Mac Address Mask

Attribute Name: mac-addr-mask

Attribute Type: string

Netconf edit-config payload

```
<mac-addresses xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-list">
  <mac-address>
    <mac-list-name>WORD</mac-list-name>
    <config>
      <mac-list-name>WORD</mac-list-name>
    </config>
  </mac-address>
  <mac-entries>
    <mac-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <mac>
        <entry>
          <mac-addr-mask>XXXX.XXXX.XXXX</mac-addr-mask>
          <config>
            <mac-addr>XXXX.XXXX.XXXX</mac-addr>
            <mac-addr>XXXX.XXXX.XXXX</mac-addr>
            <action>deny</action>
          </config>
          <mac-addr>XXXX.XXXX.XXXX</mac-addr>
          <action>deny</action>
        </entry>
      </mac>
    </mac-entry>
  </mac-entries>
</mac-addresses>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) XXXX.XXXX.XXXX XXXX.XXXX.XXXX
```

IPI-SYS-SERVICE-MGMT

Configure system backup content

system backup content

Attribute Name: system-backup-content

Attribute Type: enum (config|all)

Netconf edit-config payload

```
<system-backups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-service-mgmt">
  <system-backup>
    <config>
```



```
<system-backup-content>config</system-backup-content> <!-- operation="delete"-->
</config>
</system-backup>
</system-backups>
```

Command Syntax

```
system usb backup (config|all)
```

IPI-K3S

Configure enable

Use this attribute to enable the K3s feature.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<k3s xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-k3s">
<config>
  </enable><!-- operation="delete"-->
</config>
</k3s>
```

Command Syntax

```
feature k3s
```

IPI-DOCKER

Configure enable

Use this attribute to enable the Docker feature.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<docker xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-docker">
<config>
  </enable><!-- operation="delete"-->
</config>
</docker>
```

Command Syntax

```
feature docker
```

ipi-aaa

```
+--rw aaa
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name      -> ../config/vrf-name
    |   +--rw config
    |       | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |       | +--rw authentication-method-rule?  cml-data-types:cml_line_t
    |       | +--rw accounting-method-rule?     cml-data-types:cml_line_t
    |       | +--rw authorization-method-rule?  cml-data-types:cml_line_t
    |       | +--rw enable-fallback?           empty
    |       | +--rw non-existent?              empty
    |       | +--rw error-enable?              empty
    |       | +--ro state
    |       | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |       | +--ro authentication-method-rule? cml-data-types:cml_line_t
    |       | +--ro accounting-method-rule?    cml-data-types:cml_line_t
    |       | +--ro authorization-method-rule? cml-data-types:cml_line_t
    |       | +--ro enable-fallback?           empty
    |       | +--ro non-existent?              empty
    |       | +--ro error-enable?              empty
    |       +--rw server-groups
    |           +--rw server-group* [group-type group-name]
    |               +--rw group-type      -> ../config/group-type
    |               +--rw group-name      -> ../config/group-name
    |               +--rw config
    |                   | +--rw group-type? ipi-aaa-types:aaa_server_grp_type_t
```

```

|   | +--rw group-name?  string
|   +--ro state
|   | +--ro group-type?  ipi-aaa-types:aaa_server_grp_type_t
|   | +--ro group-name?  string
|   +--rw server-addresses
|       +--rw server-address* [host-address]
|           +--rw host-address  -> ../config/host-address
|           +--rw config
|               | +--rw host-address?  cml-data-types:cml_hostname_t
|               +--ro state
|                   +--ro host-address?  cml-data-types:cml_hostname_t
+--rw aaa-authentication-console
| +--rw config
| | +--rw authentication-method-rule?  cml-data-types:cml_line_t
| | +--rw enable-fallback?             boolean
| | +--rw authorization-method-rule?  cml-data-types:cml_line_t
| | +--rw accounting-method-rule?    cml-data-types:cml_line_t
| | +--rw user-non-existent?         empty
| +--ro state
|   +--ro authentication-method-rule?  cml-data-types:cml_line_t
|   +--ro enable-fallback?             boolean
|   +--ro authorization-method-rule?  cml-data-types:cml_line_t
|   +--ro accounting-method-rule?    cml-data-types:cml_line_t
|   +--ro user-non-existent?         empty
+--rw aaa-user
| +--rw config
| | +--rw authentication-max-failure-attempts?  uint8
| | +--rw local-user-unlock-timeout?            uint16
| +--ro state
| | +--ro authentication-max-failure-attempts?  uint8
| | +--ro local-user-unlock-timeout?            uint16
| +--rw password-policy
|   +--rw config
|   | +--rw enable?            empty
|   | +--rw numeric-count?    uint8
|   | +--rw uppercase-count?  uint8

```

```
| | +--rw lowercase-count?  uint8
| | +--rw special-count?    uint8
| | +--rw history?          uint16
| | +--rw maxsequence?      uint8
| | +--rw disable-usercheck? empty
| | +--rw maxrepeat?        uint8
| | +--rw min-length?       uint8
| +--ro state
| | +--ro enable?           empty
| | +--ro numeric-count?    uint8
| | +--ro uppercase-count?  uint8
| | +--ro lowercase-count?  uint8
| | +--ro special-count?    uint8
| | +--ro history?          uint16
| | +--ro maxsequence?      uint8
| | +--ro disable-usercheck? empty
| | +--ro maxrepeat?        uint8
| | +--ro min-length?       uint8
| +--rw role-expdays
| | +--rw role-expday* [role]
| |   +--rw role  -> ../config/role
| |   +--rw config
| |     | +--rw expire?  uint16
| |     | +--rw role?    ipi-user-management-types:user_mgmt_role_types_t
| |     | +--rw user?    string
| |     +--ro state
| |       +--ro expire?  uint16
| |       +--ro role?    ipi-user-management-types:user_mgmt_role_types_t
| |       +--ro user?    string
| +--rw user-expdays
|   +--rw user-expday* [user]
|     +--rw user  -> ../config/user
|     +--rw config
|       | +--rw expire?  uint16
|       | +--rw role?    ipi-user-management-types:user_mgmt_role_types_t
|       | +--rw user?    string
```

```

|      +--ro state
|      +--ro expire?  uint16
|      +--ro role?    ipi-user-management-types:user_mgmt_role_types_t
|      +--ro user?    string
+--rw debug
  +--rw config
  | +--rw enable?  empty
  +--ro state
    +--ro enable?          empty
    +--ro terminal-debug-status?  cml-data-types:cml_on_off_t

```

rpcs:

```

+---x aaa-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
+---x aaa-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
+---x aaa-clear-local-user-lockout {feature-list:HAVE_AAA}?
  +---w input
    +---w username  string

```

ipi-acl

```

+--rw acl
  +--rw acl-sets
  | +--rw acl-set* [name type]
  |   +--rw name      -> ../config/name
  |   +--rw type      -> ../config/type
  |   +--rw config
  |     | +--rw name?          string
  |     | +--rw type?         ipi-acl-types:acl_types_t
  |     | +--rw description?   cml-data-types:cml_line_t

```

```

| | +--rw ipv6-disable-default-icmpv6-rule? empty
| +--ro state
| | +--ro name? string
| | +--ro type? ipi-acl-types:acl_types_t
| | +--ro description? cml-data-types:cml_line_t
| | +--ro ipv6-disable-default-icmpv6-rule? empty
| +--rw default-actions
| | +--rw config
| | | +--rw forwarding-action-default? ipi-acl-types:acl_default_forwarding_action_t
| | +--ro state
| | | +--ro counters
| | | | +--ro matched-packets? yang:counter64
| | | +--ro forwarding-action-default? ipi-acl-types:acl_default_forwarding_action_t
| +--rw acl-entries
| | +--rw acl-entry* [sequence-id]
| | | +--rw sequence-id -> ../config/sequence-id
| | | +--rw config
| | | | +--rw sequence-id? uint32
| | | +--ro state
| | | | +--ro sequence-id? uint32
| | | +--rw ipv4
| | | | +--rw config
| | | | | +--rw forwarding-action? ipi-acl-types:acl_forwarding_action_t
| | | | | +--rw vlan-id? uint16
| | | | | +--rw learn-disable? empty {feature-list:HAVE_DNX}?
| | | | | +--rw source-address? ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | +--rw destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | +--rw dscp? ipi-acl-types:acl_dscp_t
| | | | | +--rw precedence? ipi-acl-types:acl_precedence_t
| | | | | +--rw inner-vlan-id? uint16
| | | | | +--rw (protocol)?
| | | | | | +--:(tcp)
| | | | | | | +--rw protocol-tcp? empty
| | | | | | | +--rw tcp-source-port? ipi-acl-types:acl_tcp_src_port_t
| | | | | | | +--rw tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | | | | | +--rw tcp-flags? ipi-acl-types:acl_tcp_flags_t

```

```

| | | | +--:(udp)
| | | | | +--rw protocol-udp?          empty
| | | | | +--rw udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | | +--rw udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| | | | +--:(icmp)
| | | | | +--rw protocol-icmp?          empty
| | | | +--:(other-protocols)
| | | | | +--rw protocol-name?          ipi-acl-types:acl_ip_protocols_t
| | | | | +--rw source-port-operator?    ipi-acl-types:acl_src_port_operations_t
| | | | | +--rw lower-source-port-in-range? uint16
| | | | | +--rw upper-source-port-in-range? uint16
| | | | | +--rw destination-port-operator? ipi-acl-types:acl_dest_port_operations_t
| | | | | +--rw lower-destination-port-in-range? uint16
| | | | | +--rw upper-destination-port-in-range? uint16
| | | | +--ro state
| | | | +--ro counters
| | | | | +--ro matched-packets? yang:counter64
| | | | | +--ro forwarding-action?       ipi-acl-types:acl_forwarding_action_t
| | | | | +--ro vlan-id?                 uint16
| | | | | +--ro learn-disable?           empty {feature-list:HAVE_DNX}?
| | | | | +--ro source-address?          ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | +--ro destination-address?     ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | +--ro dscp?                   ipi-acl-types:acl_dscp_t
| | | | | +--ro precedence?             ipi-acl-types:acl_precedence_t
| | | | | +--ro inner-vlan-id?          uint16
| | | | | +--ro (protocol)?
| | | | | +--:(tcp)
| | | | | | +--ro protocol-tcp?          empty
| | | | | | +--ro tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| | | | | | +--ro tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
| | | | | | +--ro tcp-flags?            ipi-acl-types:acl_tcp_flags_t
| | | | | +--:(udp)
| | | | | | +--ro protocol-udp?          empty
| | | | | | +--ro udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | | | +--ro udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| | | | | +--:(icmp)

```

```

| | | | +--ro protocol-icmp?          empty
| | | | +--:(other-protocols)
| | | | +--ro protocol-name?          ipi-acl-types:acl_ip_protocols_t
| | | +--ro source-port-operator?      ipi-acl-types:acl_src_port_operations_t
| | | +--ro lower-source-port-in-range? uint16
| | | +--ro upper-source-port-in-range? uint16
| | | +--ro destination-port-operator? ipi-acl-types:acl_dest_port_operations_t
| | | +--ro lower-destination-port-in-range? uint16
| | | +--ro upper-destination-port-in-range? uint16
| | +--rw ipv6 {feature-list:HAVE_IPV6}?
| | | +--rw config
| | | | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | | +--rw vlan-id?                uint16
| | | | +--rw learn-disable?          empty {feature-list:HAVE_DNX}?
| | | | +--rw source-address?          ipi-acl-types:acl_any_ipv6_src_addr_t
| | | | +--rw destination-address?     ipi-acl-types:acl_any_ipv6_dest_addr_t
| | | | +--rw dscp?                   ipi-acl-types:acl_dscp_t
| | | | +--rw (protocol)?
| | | | | +--:(tcp)
| | | | | | +--rw protocol-tcp?       empty
| | | | | | +--rw tcp-source-port?    ipi-acl-types:acl_tcp_src_port_t
| | | | | | +--rw tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | | | +--:(udp)
| | | | | | +--rw protocol-udp?       empty
| | | | | | +--rw udp-source-port?    ipi-acl-types:acl_udp_src_port_t
| | | | | | +--rw udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | | | | +--:(icmp)
| | | | | | +--rw protocol-icmp?     empty
| | | | | | +--:(sctp)
| | | | | | +--rw protocol-sctp?      empty
| | | | | | +--rw sctp-source-port?   uint16
| | | | | | +--rw sctp-destination-port? uint16
| | | | | +--:(other-protocols)
| | | | | +--rw protocol-name?        ipi-acl-types:acl_ipv6_protocols_t
| | | | +--rw source-port-operator?    ipi-acl-types:acl_src_port_operations_t
| | | | +--rw lower-source-port-in-range? uint16

```

```
| | | | +--rw upper-source-port-in-range?    uint16
| | | | +--rw destination-port-operator?      ipi-acl-types:acl_dest_port_operations_t
| | | | +--rw lower-destination-port-in-range? uint16
| | | | +--rw upper-destination-port-in-range? uint16
| | | | +--ro state
| | | |   +--ro counters
| | | |     | +--ro matched-packets?  yang:counter64
| | | |     +--ro forwarding-action?   ipi-acl-types:acl_forwarding_action_t
| | | |     +--ro vlan-id?             uint16
| | | |     +--ro learn-disable?       empty {feature-list:HAVE_DNX}?
| | | |     +--ro source-address?      ipi-acl-types:acl_any_ipv6_src_addr_t
| | | |     +--ro destination-address?  ipi-acl-types:acl_any_ipv6_dest_addr_t
| | | |     +--ro dscp?                ipi-acl-types:acl_dscp_t
| | | |     +--ro (protocol)?
| | | |       | +--:(tcp)
| | | |         | | +--ro protocol-tcp?      empty
| | | |         | | +--ro tcp-source-port?    ipi-acl-types:acl_tcp_src_port_t
| | | |         | | +--ro tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | |         | +--:(udp)
| | | |         | | +--ro protocol-udp?      empty
| | | |         | | +--ro udp-source-port?    ipi-acl-types:acl_udp_src_port_t
| | | |         | | +--ro udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | | |         | +--:(icmp)
| | | |         | | +--ro protocol-icmp?     empty
| | | |         | +--:(sctp)
| | | |         | | +--ro protocol-sctp?     empty
| | | |         | | +--ro sctp-source-port?   uint16
| | | |         | | +--ro sctp-destination-port? uint16
| | | |         | +--:(other-protocols)
| | | |         |   +--ro protocol-name?      ipi-acl-types:acl_ipv6_protocols_t
| | | |         +--ro source-port-operator?    ipi-acl-types:acl_src_port_operations_t
| | | |         +--ro lower-source-port-in-range? uint16
| | | |         +--ro upper-source-port-in-range? uint16
| | | |         +--ro destination-port-operator? ipi-acl-types:acl_dest_port_operations_t
| | | |         +--ro lower-destination-port-in-range? uint16
| | | |         +--ro upper-destination-port-in-range? uint16
```

```

| | +--rw arp
| | | +--rw config
| | | | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | | +--rw vlan-id?                uint16
| | | | +--rw learn-disable?          empty {feature-list:HAVE_DNX}?
| | | | +--rw inner-vlan-id?          uint16
| | | | +--rw (source-mac-options)?
| | | | | +--:(any-mac)
| | | | | | +--rw source-mac-any?      empty
| | | | | | +--:(host-mac)
| | | | | | +--rw source-mac-host?     ipi-acl-types:acl_mac_addr_t
| | | | | | +--:(mac-with-mask)
| | | | | | +--rw source-mac-address?  ipi-acl-types:acl_mac_addr_t
| | | | | | +--rw source-mac-mask?    ipi-acl-types:acl_mac_addr_t
| | | | +--rw arp-packet-type?        ipi-acl-types:acl_arp_type_t
| | | | +--rw source-ip-address?      ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | +--rw destination-ip-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | +--rw (destination-mac-options)?
| | | | | +--:(any-mac)
| | | | | | +--rw destination-mac-any?  empty
| | | | | | +--:(host-mac)
| | | | | | +--rw destination-mac-host? ipi-acl-types:acl_mac_addr_t
| | | | | | +--:(mac-with-mask)
| | | | | | +--rw destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | | | | +--rw destination-mac-mask? ipi-acl-types:acl_mac_addr_t
| | | +--ro state
| | | +--ro counters
| | | | +--ro matched-packets? yang:counter64
| | | +--ro forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | +--ro vlan-id?                uint16
| | | +--ro learn-disable?          empty {feature-list:HAVE_DNX}?
| | | +--ro inner-vlan-id?          uint16
| | | +--ro (source-mac-options)?
| | | | +--:(any-mac)
| | | | | +--ro source-mac-any?      empty
| | | | | +--:(host-mac)

```

```

| | | | | +--ro source-mac-host?      ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | | +--ro source-mac-address?    ipi-acl-types:acl_mac_addr_t
| | | | | +--ro source-mac-mask?      ipi-acl-types:acl_mac_addr_t
| | | | | +--ro arp-packet-type?      ipi-acl-types:acl_arp_type_t
| | | | | +--ro source-ip-address?     ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | +--ro destination-ip-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | +--ro (destination-mac-options)?
| | | | | +--:(any-mac)
| | | | | | +--ro destination-mac-any?  empty
| | | | | +--:(host-mac)
| | | | | | +--ro destination-mac-host? ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | | +--ro destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | | | +--ro destination-mac-mask?  ipi-acl-types:acl_mac_addr_t
| | | +--rw mac
| | | | +--rw config
| | | | | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | | | +--rw vlan-id?                uint16
| | | | | +--rw learn-disable?          empty {feature-list:HAVE_DNX}?
| | | | | +--rw inner-vlan-id?          uint16
| | | | | +--rw (source-mac-options)?
| | | | | | +--:(any-mac)
| | | | | | | +--rw source-mac-any?      empty
| | | | | | | +--:(host-mac)
| | | | | | | +--rw source-mac-host?     ipi-acl-types:acl_mac_addr_t
| | | | | | | +--:(mac-with-mask)
| | | | | | | +--rw source-mac-address?  ipi-acl-types:acl_mac_addr_t
| | | | | | | +--rw source-mac-mask?    ipi-acl-types:acl_mac_addr_t
| | | | | +--rw ethertype?              ipi-acl-types:acl_ether_type_t
| | | | | +--rw arp-packet-type?        ipi-acl-types:acl_arp_packet_type_t
| | | | | +--rw cos-value?              uint8
| | | | | +--rw (destination-mac-options)?
| | | | | | +--:(any-mac)
| | | | | | | +--rw destination-mac-any? empty
| | | | | | | +--:(host-mac)

```

```

| | | | +--rw destination-mac-host?   ipi-acl-types:acl_mac_addr_t
| | | |   +--:(mac-with-mask)
| | | |   +--rw destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | |   +--rw destination-mac-mask?   ipi-acl-types:acl_mac_addr_t
| | | +--ro state
| | |   +--ro counters
| | | | +--ro matched-packets? yang:counter64
| | |   +--ro forwarding-action?       ipi-acl-types:acl_forwarding_action_t
| | |   +--ro vlan-id?                 uint16
| | |   +--ro learn-disable?           empty {feature-list:HAVE_DNX}?
| | |   +--ro inner-vlan-id?           uint16
| | |   +--ro (source-mac-options)?
| | | | +--:(any-mac)
| | | | | +--ro source-mac-any?         empty
| | | | | +--:(host-mac)
| | | | | +--ro source-mac-host?       ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | |   +--ro source-mac-address?   ipi-acl-types:acl_mac_addr_t
| | | | |   +--ro source-mac-mask?     ipi-acl-types:acl_mac_addr_t
| | | | +--ro ethertype?               ipi-acl-types:acl_ether_type_t
| | | | +--ro arp-packet-type?         ipi-acl-types:acl_arp_packet_type_t
| | | | +--ro cos-value?               uint8
| | | | +--ro (destination-mac-options)?
| | | |   +--:(any-mac)
| | | | | +--ro destination-mac-any?    empty
| | | | | +--:(host-mac)
| | | | | +--ro destination-mac-host?   ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | |   +--ro destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | |   +--ro destination-mac-mask?   ipi-acl-types:acl_mac_addr_t
| | +--rw copp {feature-list:HAVE_COPP_FILTER}?
| |   +--rw ipv4
| | | +--rw config
| | | | +--rw forwarding-action?       ipi-acl-types:acl_forwarding_action_t
| | | | +--rw log-action?               uint32 {feature-list:HAVE_SFLOW}?
| | | | +--rw ttl?                     uint8

```

```

| | | | +--rw ip-options?          empty
| | | | +--rw fragments?          empty
| | | | +--rw (protocol)?
| | | | +---:(tcp)
| | | | | +--rw protocol-tcp?      empty
| | | | | +--rw tcp-source-port?   ipi-acl-types:acl_tcp_src_port_t
| | | | | +--rw tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | | | +--rw tcp-flags?         ipi-acl-types:acl_tcp_flags_t
| | | | +---:(udp)
| | | | | +--rw protocol-udp?      empty
| | | | | +--rw udp-source-port?   ipi-acl-types:acl_udp_src_port_t
| | | | | +--rw udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | | | +---:(icmp)
| | | | | +--rw protocol-icmp?     empty
| | | | | +--rw icmp-type?         uint8
| | | | +---:(other-protocols)
| | | | | +--rw protocol-name?     ipi-acl-types:acl_ip_protocols_t
| | | | +--rw (source-ipv4-type)?
| | | | +---:(source-ipv4-address-type)
| | | | | +--rw source-address?     ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | +---:(source-ipv4-prefix-group-type)
| | | | | +--rw source-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--rw (destination-ipv4-type)?
| | | | +---:(destination-ipv4-address-type)
| | | | | +--rw destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | +---:(destination-ipv4-prefix-group-type)
| | | | | +--rw destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--rw source-port-operator? ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--rw destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--rw lower-source-port-in-range? uint16
| | | | +--rw upper-source-port-in-range? uint16
| | | | +--rw lower-destination-port-in-range? uint16
| | | | +--rw upper-destination-port-in-range? uint16
| | | | +--ro state
| | | | +--ro forwarding-action?     ipi-acl-types:acl_forwarding_action_t
| | | | +--ro log-action?            uint32 {feature-list:HAVE_SFLOW}?

```

```

| | | +--ro ttl?                uint8
| | | +--ro ip-options?         empty
| | | +--ro fragments?         empty
| | | +--ro (protocol)?
| | | | +--:(tcp)
| | | | | +--ro protocol-tcp?   empty
| | | | | +--ro tcp-source-port? ipi-acl-types:acl_tcp_src_port_t
| | | | | +--ro tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | | | +--ro tcp-flags?      ipi-acl-types:acl_tcp_flags_t
| | | | +--:(udp)
| | | | | +--ro protocol-udp?   empty
| | | | | +--ro udp-source-port? ipi-acl-types:acl_udp_src_port_t
| | | | | +--ro udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | | | +--:(icmp)
| | | | | +--ro protocol-icmp?  empty
| | | | | +--ro icmp-type?      uint8
| | | | +--:(other-protocols)
| | | | | +--ro protocol-name?   ipi-acl-types:acl_ip_protocols_t
| | | | +--ro (source-ipv4-type)?
| | | | | +--:(source-ipv4-address-type)
| | | | | | +--ro source-address? ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | | +--:(source-ipv4-prefix-group-type)
| | | | | | | +--ro source-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | | +--ro (destination-ipv4-type)?
| | | | | | +--:(destination-ipv4-address-type)
| | | | | | | +--ro destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | | +--:(destination-ipv4-prefix-group-type)
| | | | | | | +--ro destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--ro source-port-operator? ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--ro destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--ro lower-source-port-in-range? uint16
| | | | +--ro upper-source-port-in-range? uint16
| | | | +--ro lower-destination-port-in-range? uint16
| | | | +--ro upper-destination-port-in-range? uint16
| | +--rw ipv6 {feature-list:HAVE_IPV6}?
| | +--rw config

```

```

| | | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | +--rw log-action?             uint32 {feature-list:HAVE_SFLOW}?
| | | +--rw hop-limit?             uint8
| | | +--rw (protocol)?
| | | | +---:(tcp)
| | | | | +--rw protocol-tcp?      empty
| | | | | +--rw tcp-source-port?   ipi-acl-types:acl_tcp_src_port_t
| | | | | +--rw tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | | | +---:(udp)
| | | | | +--rw protocol-udp?      empty
| | | | | +--rw udp-source-port?   ipi-acl-types:acl_udp_src_port_t
| | | | | +--rw udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | | | +---:(icmp)
| | | | | +--rw protocol-icmpv6?   empty
| | | | +---:(other-protocols)
| | | | | +--rw protocol-name?     ipi-acl-types:acl_copp_ipv6_protocols_t
| | | | +--rw (source-ipv6-type)?
| | | | | +---:(source-ipv6-address-type)
| | | | | | +--rw source-address?   ipi-acl-types:acl_copp_any_ipv6_src_addr_t
| | | | | | +---:(source-ipv6-prefix-group-type)
| | | | | | | +--rw source-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | | +--rw (destination-ipv6-type)?
| | | | | | +---:(destination-ipv6-address-type)
| | | | | | | +--rw destination-address? ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
| | | | | | | +---:(destination-ipv6-prefix-group-type)
| | | | | | | +--rw destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--rw source-port-operator? ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--rw destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--rw lower-source-port-in-range? uint16
| | | | +--rw upper-source-port-in-range? uint16
| | | | +--rw lower-destination-port-in-range? uint16
| | | | +--rw upper-destination-port-in-range? uint16
| | | +--ro state
| | | | +--ro forwarding-action?    ipi-acl-types:acl_forwarding_action_t
| | | | +--ro log-action?           uint32 {feature-list:HAVE_SFLOW}?
| | | | +--ro hop-limit?           uint8

```

```

| |      +--ro (protocol)?
| |      | +---:(tcp)
| |      | | +--ro protocol-tcp?          empty
| |      | | +--ro tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| |      | | +--ro tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
| |      | +---:(udp)
| |      | | +--ro protocol-udp?          empty
| |      | | +--ro udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| |      | | +--ro udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| |      | +---:(icmp)
| |      | | +--ro protocol-icmpv6?       empty
| |      | +---:(other-protocols)
| |      |   +--ro protocol-name?         ipi-acl-types:acl_copp_ipv6_protocols_t
| |      +--ro (source-ipv6-type)?
| |      | +---:(source-ipv6-address-type)
| |      | | +--ro source-address?        ipi-acl-types:acl_copp_any_ipv6_src_addr_t
| |      | +---:(source-ipv6-prefix-group-type)
| |      |   +--ro source-prefix-group?    -> /ipi-prefix-group:prefix-groups/prefix-group/name
| |      +--ro (destination-ipv6-type)?
| |      | +---:(destination-ipv6-address-type)
| |      | | +--ro destination-address?    ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
| |      | +---:(destination-ipv6-prefix-group-type)
| |      |   +--ro destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| |      +--ro source-port-operator?       ipi-acl-types:acl_copp_src_port_operations_t
| |      +--ro destination-port-operator?   ipi-acl-types:acl_copp_dest_port_operations_t
| |      +--ro lower-source-port-in-range? uint16
| |      +--ro upper-source-port-in-range? uint16
| |      +--ro lower-destination-port-in-range? uint16
| |      +--ro upper-destination-port-in-range? uint16
| +--ro summary-info
|   +--ro state
|     | +--ro counters
|     | | +--ro total-acl-entries?  yang:counter32
|     | | +--ro statistics-enabled? empty
|     +--ro interfaces
|       | +--ro interface* [interface-name]

```

```

|   |   +--ro interface-name  -> ../state/interface-name
|   |   +--ro state
|   |       +--ro interface-name?  -> /ipi-interface:interfaces/interface/name
|   |       +--ro filter-direction?  ipi-acl-types:acl_filter_direction_t
|   |       +--ro interface-type?    ipi-acl-types:acl_interface_type_t
|   |       +--ro interface-status?  ipi-acl-types:acl_interface_status_t
|   +--ro vty-line
|       +--ro state
|           +--ro filter-direction?  ipi-acl-types:acl_filter_direction_t
+--rw standard-acl-sets
| +--rw standard-acl-set* [name type]
|   +--rw name          -> ../config/name
|   +--rw type          -> ../config/type
|   +--rw config
|   |   +--rw name?  string
|   |   +--rw type?  ipi-acl-types:acl_standard_types_t
|   +--ro state
|   |   +--ro name?  string
|   |   +--ro type?  ipi-acl-types:acl_standard_types_t
|   +--rw ipv4-acl-entries
|   |   +--rw ipv4-acl-entry* [source-address]
|   |   |   +--rw source-address  -> ../config/source-address
|   |   |   +--rw config
|   |   |   |   +--rw source-address?  ipi-acl-types:acl_any_ipv4_src_addr_t
|   |   |   |   +--rw forwarding-action  ipi-acl-types:acl_forwarding_action_t
|   |   |   +--ro state
|   |   |       +--ro source-address?  ipi-acl-types:acl_any_ipv4_src_addr_t
|   |   |       +--ro forwarding-action  ipi-acl-types:acl_forwarding_action_t
|   +--rw ipv6-acl-entries {feature-list:HAVE_IPV6}?
|       +--rw ipv6-acl-entry* [source-address]
|       |   +--rw source-address  -> ../config/source-address
|       |   +--rw config
|       |   |   +--rw source-address?  ipi-acl-types:acl_any_ipv6_src_addr_t
|       |   |   +--rw forwarding-action  ipi-acl-types:acl_forwarding_action_t
|       |   +--ro state
|       |       +--ro source-address?  ipi-acl-types:acl_any_ipv6_src_addr_t

```

```

|      +--ro forwarding-action  ipi-acl-types:acl_forwarding_action_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|   | +--rw name?  -> /ipi-interface:interfaces/interface/name
|   +--ro state
|   | +--ro name?  -> /ipi-interface:interfaces/interface/name
|   +--rw ingress-acl-sets
|   | +--rw ingress-acl-set* [acl-type]
|   |   +--rw acl-type      -> ../config/acl-type
|   |   +--rw config
|   |   | +--rw acl-type?  ipi-acl-types:acl_types_t
|   |   +--ro state
|   |   | +--ro acl-type?  ipi-acl-types:acl_types_t
|   |   +--rw access-groups
|   |   +--rw access-group* [acl-name]
|   |       +--rw acl-name  -> ../config/acl-name
|   |       +--rw config
|   |       | +--rw acl-name?  string
|   |       | +--rw time-range? string
|   |       +--ro state
|   |       +--ro acl-name?  string
|   |       +--ro time-range? string
|   +--rw egress-acl-sets
|   +--rw egress-acl-set* [acl-type]
|   +--rw acl-type      -> ../config/acl-type
|   +--rw config
|   | +--rw acl-type?  ipi-acl-types:acl_types_t
|   +--ro state
|   | +--ro acl-type?  ipi-acl-types:acl_types_t
|   +--rw access-groups
|   +--rw access-group* [acl-name]
|       +--rw acl-name  -> ../config/acl-name
|       +--rw config
|       | +--rw acl-name?  string

```

```

|         | +--rw time-range?  string
|         +--ro state
|         +--ro acl-name?   string
|         +--ro time-range? string
+--rw vty-line
| +--rw ingress-acl-sets
| | +--rw ingress-acl-set* [acl-type]
| |   +--rw acl-type  -> ../config/acl-type
| |   +--rw config
| |     | +--rw acl-type? ipi-acl-types:acl_vty_types_t
| |     | +--rw acl-name? string
| |     +--ro state
| |       +--ro acl-type? ipi-acl-types:acl_vty_types_t
| |       +--ro acl-name? string
| +--rw egress-acl-sets
|   +--rw egress-acl-set* [acl-type]
|   +--rw acl-type  -> ../config/acl-type
|   +--rw config
|     | +--rw acl-type? ipi-acl-types:acl_vty_types_t
|     | +--rw acl-name? string
|     +--ro state
|       +--ro acl-type? ipi-acl-types:acl_vty_types_t
|       +--ro acl-name? string
+--rw global
  +--ro state
  +--ro counters
    +--ro total-global-acl-entries? yang:counter32

```

rpcs:

```

+---x clear-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-access-list-counters {feature-list:HAVE_ACL}?
| +---w input
|   +---w name  string
+---x clear-ip-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-ip-access-list-counters {feature-list:HAVE_ACL}?
| +---w input

```

```

|   +---w name    string
+---x clear-ipv6-access-list-counters-all {feature-list:HAVE_IPV6}?
+---x clear-ipv6-access-list-counters {feature-list:HAVE_IPV6}?
| +---w input
|   +---w name    string
+---x clear-mac-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-mac-access-list-counters {feature-list:HAVE_ACL}?
| +---w input
|   +---w name    string
+---x clear-arp-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-arp-access-list-counters {feature-list:HAVE_ACL}?
    +---w input
        +---w name    string

```

notifications:

```

+---n acl-copp-ipv4-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro type?          ipi-acl-types:acl_types_t
| +--ro sequence-id?   uint32
| +--ro source-address? ipi-acl-types:acl_any_ipv4_src_addr_t
| +--ro destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
+---n acl-copp-ipv6-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
    +--ro severity?      cml-data-types:cml_notif_severity_t
    +--ro eventClass?    cml-data-types:cml_notif_class_t
    +--ro name?          string
    +--ro type?          ipi-acl-types:acl_types_t
    +--ro sequence-id?   uint32
    +--ro source-address? ipi-acl-types:acl_copp_any_ipv6_src_addr_t
    +--ro destination-address? ipi-acl-types:acl_copp_any_ipv6_dest_addr_t

```

ipi-alarms

+--rw alarms

```

+--ro alarm* [id]
  +--ro id      -> ../state/id
  +--ro state
    +--ro id?          string
    +--ro resource?    string
    +--ro text?        string
    +--ro time-created? uint64
    +--ro alarm-reported-timestamp? ipi-alarms-types:alarm_date_time_t
    +--ro alarm-severity? ipi-alarms-types:alarm_severity_t
    +--ro type-id?      ipi-alarms-types:alarm_type_id_t

```

augment /ipi-platform:components/ipi-platform:component/ipi-platform:state:

```

+--ro component-alarm {feature-list:HAVE_CMMD}?
  +--ro equipment-failure? boolean

```

notifications:

```

+---n alarm
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t
  +--ro id?                string
  +--ro resource?          string
  +--ro text?              string
  +--ro time-created?      uint64
  +--ro alarm-reported-timestamp? ipi-alarms-types:alarm_date_time_t
  +--ro alarm-severity?    ipi-alarms-types:alarm_severity_t
  +--ro type-id?           ipi-alarms-types:alarm_type_id_t
  +--ro is-clear?          boolean

```

ipi-arp

```

+--rw arp
  +--rw entries
  | +--rw entry* [vrf-name ip-address]
  |   +--rw vrf-name      -> ../config/vrf-name
  |   +--rw ip-address    -> ../config/ip-address

```

```

|   +--rw config
|   |   +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|   |   |   +--rw ip-address?      inet:ipv4-address
|   |   |   +--rw mac-address      cml-data-types:cml_mac_addr_t
|   |   |   +--rw respond-to-arp-request?  empty
|   |   +--ro state
|   |   |   +--ro vrf-name?        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|   |   |   |   +--ro ip-address?      inet:ipv4-address
|   |   |   |   +--ro mac-address      cml-data-types:cml_mac_addr_t
|   |   |   |   +--ro respond-to-arp-request?  empty
|   |   |   |   +--ro arp-age?        string
|   |   |   |   +--ro interface-name?   string
|   |   |   |   +--ro physical-interface-name? string
|   |   |   |   +--ro arp-state?       ipi-arp-types:ndd_arp_state_t
|   |   |   |   +--ro interface-state?   ipi-arp-types:ndd_arp_if_type_t
|   +--rw global {feature-list:HAVE_CUSTOM2_NDD}?
|   |   +--rw config {feature-list:HAVE_CUSTOM2_NDD}?
|   |   |   +--rw icmp-redirect?  empty
|   |   +--ro state {feature-list:HAVE_CUSTOM2_NDD}?
|   |   |   +--ro icmp-redirect?  empty
+--rw debug
|   +--rw config
|   |   +--rw enable?  empty
|   +--ro state
|   |   +--ro enable?          empty
|   |   +--ro terminal-debug-status? cml-data-types:cml_on_off_t
+--rw interfaces
|   +--rw interface* [name]
|   |   +--rw name      -> ../config/name
|   |   +--rw config
|   |   |   +--rw name?          -> /ipi-interface:interfaces/interface/name
|   |   |   +--rw enable-proxy-arp?  empty
|   |   |   +--rw enable-local-proxy-arp?  empty
|   |   |   +--rw enable-ip-redirects?  empty
|   |   |   +--rw arp-ageing-timeout?  uint16

```

```

| | +--rw arp-reachable-time?    uint16
|   +--ro state
|     +--ro name?                -> /ipi-interface:interfaces/interface/name
|     +--ro enable-proxy-arp?    empty
|     +--ro enable-local-proxy-arp? empty
|     +--ro enable-ip-redirects? empty
|     +--ro arp-ageing-timeout?   uint16
|     +--ro arp-reachable-time?   uint16
+--ro dynamic-arp* [vrf-name]
  +--ro vrf-name      string
  +--ro entry* [ipv4-address]
    | +--ro ipv4-address      inet:ipv4-address
    | +--ro mac-address?      cml-data-types:cml_mac_addr_t
    | +--ro arp-age?          string
    | +--ro interface-name?   string
    | +--ro physical-interface-name? string
    | +--ro arp-state?        ipi-arp-types:ndd_arp_state_t
    | +--ro interface-state?   ipi-arp-types:ndd_arp_if_type_t
  +--ro adjacency-summary
    +--ro resolved-arp?    uint32
    +--ro incomplete-arp?  uint32
    +--ro unknown-arp?     uint32
    +--ro total-arp?       uint32

```

rpcs:

```

+---x arp-terminal-debug-on {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
+---x arp-terminal-debug-off {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
+---x clear-arp-entry {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
| +---w input
|   +---w ip-address?  inet:ipv4-address
|   +---w vrf-name?    string
+---x clear-arp-entry-per-interface {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
  +---w input
    +---w if-name  string
    +---w vrf-name? string

```

ipi-authentication-radius

```
+--rw authentication-radius {feature-list:HAVE_ENCRYPT_CLEARTEXT}?
```

```
  +--rw global
```

```
    | +--rw config
```

```
      | | +--rw source-address?      inet:ipv4-address
```

```
      | | +--rw port?                uint16
```

```
      | | +--rw timeout?             uint8
```

```
      | | +--rw retransmit-max-retries? uint8
```

```
      | | +--rw (key-type)?
```

```
        | | +--:(key-string)
```

```
          | | | +--rw key-string?    string
```

```
          | | +--:(encrypted)
```

```
            | | +--rw encryption-key? string
```

```
    | +--ro state
```

```
      | +--ro source-address?      inet:ipv4-address
```

```
      | +--ro port?                uint16
```

```
      | +--ro timeout?             uint8
```

```
      | +--ro retransmit-max-retries? uint8
```

```
      | +--ro (key-type)?
```

```
        | +--:(key-string)
```

```
          | | +--ro key-string?    string
```

```
          | +--:(encrypted)
```

```
            | +--ro encryption-key? string
```

```
+--rw hosts
```

```
  +--rw host* [host-address]
```

```
    +--rw host-address -> ../config/host-address
```

```
    +--rw config
```

```
      | +--rw host-address?      inet:ipv4-address
```

```
      | +--rw host-port?         uint16
```

```
      | +--rw host-timeout?      uint8
```

```
      | +--rw host-retransmit-max-retries? uint8
```

```
      | +--rw (host-key-type)?
```

```
        | +--:(key-string)
```



```

| | +--rw key-string?      string
|   +--:(encrypted)
|     +--rw encryption-key?  string
+--ro state
  +--ro host-address?        inet:ipv4-address
  +--ro host-port?           uint16
  +--ro host-timeout?        uint8
  +--ro host-retransmit-max-retries?  uint8
  +--ro (host-key-type)?
    | +--:(key-string)
    | | +--ro key-string?      string
    | | +--:(encrypted)
    | |   +--ro encryption-key?  string
  +--ro next-radius-message-id?  uint8
  +--ro encryption-key-operational?  string
  +--ro host-port-operational?    uint16
  +--ro host-timeout-operational?  uint8
  +--ro host-retransmit-max-retries-operational?  uint8

```

ipi-authentication

```

+--rw authentication {feature-list:HAVE_AUTHD}?
  +--rw global
    | +--rw config
    | | +--rw mac-authentication?  empty {feature-list:HAVE_MAC_AUTH}?
    | | +--rw dot1x-authentication? empty
    | +--ro state
    |   +--ro mac-authentication?  empty {feature-list:HAVE_MAC_AUTH}?
    |   +--ro dot1x-authentication? empty
  +--rw dot1x-interfaces
    | +--rw dot1x-interface* [name]
    |   +--rw name              -> ../config/name
    |   +--rw config
    | | +--rw name?              -> /ipi-interface:interfaces/interface/name
    | | +--rw dot1x-control      ipi-authentication-types:auth_dot1x_control_t

```

```
| | +--rw protocol-version? ipi-authentication-types:auth_dot1x_eapol_version_t
| +--ro state
| | +--ro name? -> /ipi-interface:interfaces/interface/name
| | +--ro dot1x-control ipi-authentication-types:auth_dot1x_control_t
| | +--ro protocol-version? ipi-authentication-types:auth_dot1x_eapol_version_t
| +--ro auth-dot1x-interface-operational
| | +--ro state
| | +--ro dot1x-control-operational? ipi-authentication-types:auth_dot1x_control_t
| | +--ro supplicant-name? string
| | +--ro supplicant-mac-address? ipi-authentication-types:auth_dot1x_mac_address_t
| | +--ro port-enabled? boolean
| | +--ro authentication-abort? boolean
| | +--ro authentication-fail? boolean
| | +--ro authentication-start? boolean
| | +--ro authentication-timeout? boolean
| | +--ro authentication-success? boolean
| | +--ro key-available? boolean
| | +--ro key-tx-enabled? boolean
| +--ro authentication-control-dir-operational
| | +--ro state
| | +--ro admin-controlled-directions? ipi-authentication-types:auth_dot1x_control_dir_t
| | +--ro oper-controlled-directions? ipi-authentication-types:auth_dot1x_control_dir_t
| | +--ro bridge-detected? boolean
| +--ro authentication-key-received-operational
| | +--ro state
| | +--ro rx-key? boolean
| +--rw authenticator-pae
| | +--rw config
| | | +--rw quiet-period? uint16
| | | +--rw max-reauth-value? uint8
| | | +--rw interval-period? uint16
| | +--ro state
| | +--ro quiet-period? uint16
| | +--ro max-reauth-value? uint8
| | +--ro interval-period? uint16
| +--ro auth-authenticator-pae-operational
```

```

| | +--ro state
| |   +--ro quiet-period-operational?   uint16
| |   +--ro max-reauth-value-operational? uint8
| |   +--ro interval-period-operational? uint16
| |   +--ro port-status?                ipi-authentication-types:auth_dot1x_port_status_t
| |   +--ro pae-state?                  ipi-authentication-types:auth_dot1x_pae_state_t
| |   +--ro port-mode?                  ipi-authentication-types:auth_dot1x_port_ctrl_t
| |   +--ro reauth-count?               uint32
| |   +--ro rx-response-id?             uint32
| +--rw reauthentication-timer
| | +--rw config
| | | +--rw reauthentication-period?   uint32
| | | +--rw enable-reauthentication?   empty
| | | +--rw enable-mac-auth-bypass?   ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
| | | +--ro state
| | |   +--ro reauthentication-period?   uint32
| | |   +--ro enable-reauthentication?   empty
| | |   +--ro enable-mac-auth-bypass?   ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
| | +--ro reauthentication-timer-operational
| | +--ro state
| |   +--ro reauthentication-period-operational?   uint32
| |   +--ro enable-reauthentication-operational?   empty
| |   +--ro dot1x-timer?                    ipi-authentication-types:auth_mac_dot1x_timer_status_t {feature-
list:HAVE_MAC_AUTH}?
| |   +--ro mac-status?                    ipi-authentication-types:auth_mac_status_t {feature-
list:HAVE_MAC_AUTH}?
| |   +--ro last-rejected-mac?             ipi-authentication-types:auth_dot1x_mac_address_t {feature-
list:HAVE_MAC_AUTH}?
| +--rw authenticator-be
| | +--rw config
| | | +--rw supplicant-timeout?   uint16
| | | +--rw server-timeout?      uint16
| | +--ro state
| |   +--ro supplicant-timeout?   uint16
| |   +--ro server-timeout?      uint16
| +--ro authenticator-be-operational

```

```

|   +--ro state
|   +--ro supplicant-timeout-operational?  uint16
|   +--ro server-timeout-operational?      uint16
|   +--ro current-id?                      uint8
|   +--ro be-state?                        ipi-authentication-types:auth_be_state_t
|   +--ro req-count?                      uint8
|   +--ro id-from-server?                  uint8
+--rw mac-interfaces {feature-list:HAVE_MAC_AUTH}?
| +--rw mac-interface* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|   | +--rw name?      -> /ipi-interface:interfaces/interface/name
|   | +--rw mac-control      empty
|   | +--rw mac-mode?      ipi-authentication-types:auth_mac_mode_t
|   | +--rw dynamic-vlan-creation?  empty
|   | +--rw mac-address-aging?  empty
|   +--ro state
|   +--ro name?      -> /ipi-interface:interfaces/interface/name
|   +--ro mac-control      empty
|   +--ro mac-mode?      ipi-authentication-types:auth_mac_mode_t
|   +--ro dynamic-vlan-creation?  empty
|   +--ro mac-address-aging?  empty
+--rw debug
  +--rw config
  | +--rw options?  ipi-authentication-types:auth_dot1x_debug_t
  +--ro state
    +--ro options?      ipi-authentication-types:auth_dot1x_debug_t
    +--ro terminal-debug-status?  ipi-authentication-types:auth_dot1x_debug_t

```

rpcs:

```

+---x dot1x-authentication-initialize-interface {feature-list:HAVE_MAC_AUTH}?
| +---w input
|   +---w name  string
+---x dot1x-authentication-snmp-restart {feature-list:HAVE_SNMP}?
+---x dot1x-authentication-terminal-debug-on {feature-list:HAVE_AUTHD}?
| +---w input

```

```
| +---w terminal-debug-options  ipi-authentication-types:auth_dot1x_debug_t
+---x dot1x-authentication-terminal-debug-off {feature-list:HAVE_AUTHD}?
+---w input
+---w terminal-debug-options  ipi-authentication-types:auth_dot1x_debug_t
```

ipi-bfd

```
+--rw bfd
+--rw global
| +--rw config
| | +--rw notification-enabled?  boolean {feature-list:HAVE_BFD_MONO}?
| | +--rw echo-mode-enabled?    empty {feature-list:HAVE_BFD_MONO}?
| | +--rw slow-tx-interval?     uint32 {feature-list:HAVE_BFD_MONO}?
| +--ro state
| | +--ro notification-enabled?   boolean {feature-list:HAVE_BFD_MONO}?
| | +--ro echo-mode-enabled?     empty {feature-list:HAVE_BFD_MONO}?
| | +--ro slow-tx-interval?      uint32 {feature-list:HAVE_BFD_MONO}?
| | +--ro start-time?           yang:timeticks {feature-list:HAVE_BFD_MONO}?
| | +--ro administrative-state?  ipi-bfd-types:oambfd_admin_state_t {feature-list:HAVE_BFD_MONO}?
| | +--ro image-type?           ipi-bfd-types:oambfd_image_type_t {feature-list:HAVE_BFD_MONO}?
| | +--ro next-session-discriminator? string {feature-list:HAVE_BFD_MONO}?
| | +--ro counters
| |   +--ro total-sessions? yang:counter32
| +--rw multihop-peer-intervals
| | +--rw multihop-peer-interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier]
| |   {feature-list:HAVE_BFD_MONO}?
| |   +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
| |   +--rw required-minimum-rx-interval -> ../config/required-minimum-rx-interval
| |   +--rw detection-multiplier         -> ../config/detection-multiplier
| |   +--rw config
| |     +--rw desired-minimum-tx-interval?  uint32
| |     +--rw required-minimum-rx-interval? uint32
```

```

| | | +--rw detection-multiplier?      uint8
| |   +--ro state
| |     +--ro desired-minimum-tx-interval?  uint32
| |     +--ro required-minimum-rx-interval?  uint32
| |     +--ro detection-multiplier?      uint8
|   +--rw intervals
|     +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
|       +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
|       +--rw required-minimum-rx-interval  -> ../config/required-minimum-rx-interval
|       +--rw detection-multiplier          -> ../config/detection-multiplier
|       +--rw config
|         | +--rw desired-minimum-tx-interval?  uint32
|         | +--rw required-minimum-rx-interval?  uint32
|         | +--rw detection-multiplier?      uint8
|         +--ro state
|           +--ro desired-minimum-tx-interval?  uint32
|           +--ro required-minimum-rx-interval?  uint32
|           +--ro detection-multiplier?      uint8
+--rw peers
| +--rw peer* [remote-address]
|   +--rw remote-address  -> ../config/remote-address
|   +--rw config
|     | +--rw remote-address?  inet:ip-address
|     +--ro state
|       | +--ro remote-address?  inet:ip-address
|       +--rw intervals
|         | +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
|         |   +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
|         |   +--rw required-minimum-rx-interval  -> ../config/required-minimum-rx-interval
|         |   +--rw detection-multiplier          -> ../config/detection-multiplier
|         |   +--rw config
|         |     | +--rw desired-minimum-tx-interval?  uint32
|         |     | +--rw required-minimum-rx-interval?  uint32
|         |     | +--rw detection-multiplier?      uint8
|         |     +--ro state

```

```

| |   +--ro desired-minimum-tx-interval?  uint32
| |   +--ro required-minimum-rx-interval? uint32
| |   +--ro detection-multiplier?        uint8
|   +--rw authentication
|     +--rw config
|       | +--rw key-type?          ipi-bfd-types:bfd_multihop_auth_type_t
|       | +--rw (key-option)?
|       |   +--:(key-id)
|       |     | +--rw key-id?      uint32
|       |     | +--rw key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
|       |     | +--rw key-string?   string
|       |     +--:(key-chain)
|       +--ro state
|         +--ro key-type?          ipi-bfd-types:bfd_multihop_auth_type_t
|         +--ro (key-option)?
|         +--:(key-id)
|           | +--ro key-id?      uint32
|           | +--ro key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
|           | +--ro key-string?   string
|           +--:(key-chain)
+--rw debug
| +--rw config
| | +--rw options?          ipi-bfd-types:bfd_debug_t
| | +--rw enable-oam-srv6?  empty {feature-list:HAVE_SRV6}?
| +--ro state
|   +--ro options?          ipi-bfd-types:bfd_debug_t
|   +--ro enable-oam-srv6?  empty {feature-list:HAVE_SRV6}?
|   +--ro terminal-debug-status? ipi-bfd-types:bfd_debug_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|     | +--rw name?          -> /ipi-interface:interfaces/interface/name
|     | +--rw bfd-disabled?  empty
|     | +--rw bfd-session-type? ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
|     +--ro state

```

```

| | +--ro name?          -> /ipi-interface:interfaces/interface/name
| | +--ro bfd-disabled?   empty
| | +--ro bfd-session-type? ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
| | +--ro interface-index? uint32
| | +--ro interface-state? ipi-bfd-types:oambfd_if_state_t
| +--rw intervals
| | +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
| |   +--rw desired-minimum-tx-interval -> ../config/desired-minimum-tx-interval
| |   +--rw required-minimum-rx-interval -> ../config/required-minimum-rx-interval
| |   +--rw detection-multiplier        -> ../config/detection-multiplier
| |   +--rw config
| |     +--rw desired-minimum-tx-interval? uint32
| |     +--rw required-minimum-rx-interval? uint32
| |     +--rw detection-multiplier?      uint8
| |   +--ro state
| |     +--ro desired-minimum-tx-interval? uint32
| |     +--ro required-minimum-rx-interval? uint32
| |     +--ro detection-multiplier?      uint8
| +--rw echo
| | +--rw config
| | | +--rw ipv4-source?          inet:ipv4-address
| | | +--rw required-minimum-tx-interval? uint32
| | +--ro state
| |   +--ro ipv4-source?          inet:ipv4-address
| |   +--ro required-minimum-tx-interval? uint32
| +--rw authentication
| | +--rw config
| | | +--rw key-type?            ipi-bfd-types:bfd_multihop_auth_type_t
| | | +--rw (key-option)?
| | |   +--:(key-id)
| | |     +--rw key-id?          uint32
| | |     +--rw key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
| | |     +--rw key-string?      string
| | |     +--:(key-chain)
| | +--ro state
| |   +--ro key-type?            ipi-bfd-types:bfd_multihop_auth_type_t

```

```

| | +--ro (key-option)?
| |   +--:(key-id)
| |     | +--ro key-id?      uint32
| |     | +--ro key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
| |     | +--ro key-string?   string
| |     +--:(key-chain)
| +--rw sessions
|   +--rw session* [local-address remote-address session-type]
|     +--rw local-address  -> ../config/local-address
|     +--rw remote-address -> ../config/remote-address
|     +--rw session-type   -> ../config/session-type
|     +--rw config
|       | +--rw local-address?   inet:ip-address
|       | +--rw remote-address?  inet:ip-address
|       | +--rw session-type?    ipi-bfd-types:bfd_session_type_t
|       | +--rw administrative-down? empty
|       | +--rw non-persistent?  empty
|       +--ro state
|         +--ro local-address?   inet:ip-address
|         +--ro remote-address?  inet:ip-address
|         +--ro session-type?    ipi-bfd-types:bfd_session_type_t
|         +--ro administrative-down? empty
|         +--ro non-persistent?  empty
+--ro sessions
  +--ro session* [local-discriminator vrf-name]
    | +--ro local-discriminator -> ../state/local-discriminator
    | +--ro vrf-name           -> ../state/vrf-name
    | +--ro state
    | | +--ro counters
    | | | +--ro packets
    | | | | +--ro ipv4
    | | | | | +--ro received?      yang:counter64
    | | | | | +--ro transmitted?   yang:counter64
    | | | | | +--ro echo-transmitted? yang:counter64
    | | | | +--ro ipv6 {feature-list:HAVE_IPV6}?
    | | | |   +--ro received?      yang:counter64

```

```

| | | | +--ro transmitted?      yang:counter64
| | | | +--ro echo-transmitted? yang:counter64
| | | +--ro up-transitions?     yang:counter32
| | +--ro lower-layer-type?     ipi-bfd-types:oambfd_sess_lower_layer_t
| | +--ro uptime?              yang:timeticks
| | +--ro version?             uint32
| | +--ro local-port?          inet:port-number
| | +--ro remote-port?         inet:port-number
| | +--ro negotiated-detection-multiplier? uint8
| | +--ro forward-hello-timer-hits?    uint32
| | +--ro remote-heard?          empty
| | +--ro fate-shared?          empty
| | +--ro remote-administrative-down?  empty
| | +--ro remote-demand-mode-enabled?  empty
| | +--ro remote-echo-enabled?        empty
| | +--ro poll-bit?                empty
| | +--ro storage-type?            ipi-bfd-types:bfd_storage_type_t
| | +--ro downtime?              yang:timeticks
| | +--ro discontinuity-time?     yang:timeticks
| | +--ro authentication-key-id?   uint32
| | +--ro last-up-time?           yang:timeticks
| | +--ro hold-down-timer?        uint32
| | +--ro hold-down-timer-hits?   uint32
| | +--ro session-type-status?    ipi-bfd-types:oambfd_session_type_status_t
| | +--ro remote-address?         inet:ip-address
| | +--ro local-address?          inet:ip-address
| | +--ro vrf-name?              string
| | +--ro interface-index?        uint32
| | +--ro interface-name?         string
| | +--ro remote-discriminator?   string
| | +--ro local-discriminator?    string
| | +--ro session-state?          ipi-bfd-types:oambfd_session_state_t
| | +--ro session-type?           ipi-bfd-types:bfd_session_type_state_t
| | +--ro session-diagnostics?    ipi-bfd-types:oambfd_perform_diag_t
| | +--ro negotiated-tx-interval?  uint32
| | +--ro negotiated-rx-interval?  uint32

```

```

| +--ro micro-bfd-sessions {feature-list:HAVE_BFD_HW_OFFLOAD}?
| | +--ro interface* [member-interface] {feature-list:HAVE_BFD_HW_OFFLOAD}?
| |   +--ro member-interface -> ../state/member-interface
| |   +--ro state
| |     +--ro member-interface? -> /ipi-interface:interfaces/interface/name
| |     +--ro remote-session-state? ipi-bfd-types:oambfd_session_state_t
| |     +--ro remote-session-diagnostics? ipi-bfd-types:oambfd_perform_diag_t
| |     +--ro interface-index? uint32
| |     +--ro interface-name? string
| |     +--ro remote-discriminator? string
| |     +--ro local-discriminator? string
| |     +--ro microbfd-local-discriminator? string
| |     +--ro session-state? ipi-bfd-types:oambfd_session_state_t
| |     +--ro session-type? ipi-bfd-types:bfd_session_type_state_t
| |     +--ro session-diagnostics? ipi-bfd-types:oambfd_perform_diag_t
| |     +--ro negotiated-tx-interval? uint32
| |     +--ro negotiated-rx-interval? uint32
| +--ro echo
| | +--ro state
| |   +--ro local-echo-port? inet:port-number
| |   +--ro echo-desired-minimum-tx-interval? uint32
| |   +--ro echo-required-minimum-rx-interval? uint32
| |   +--ro negotiated-interval? uint32
| +--ro mpls {feature-list:HAVE_CUSTOM1_MPLS_BFD}?
| | +--ro state {feature-list:HAVE_MPLS_OAM}?
| | | +--ro fec-address? inet:ipv4-address
| | | +--ro lsp-type? ipi-bfd-types:oambfd_mpls_lsp_type_t
| | | +--ro tunnel-name? string
| | | +--ro tunnel-label? uint32
| | | +--ro ftn-index? uint32
| | | +--ro lsp-ping-interval? uint32
| | | +--ro minimum-tx? uint32
| | | +--ro minimum-rx? uint32
| | | +--ro detection-multiplier? uint8
| | +--ro virtual-circuit-connectivity-verification
| | | +--ro state {feature-list:HAVE_VCCV}?

```

```

| | | +--ro vc-identifier?          uint32
| | | +--ro incoming-vc-label?      uint32
| | | +--ro outgoing-vc-label?      uint32
| | | +--ro control-channel-type?    ipi-bfd-types:oambfd_mpls_cc_type_t
| | | +--ro connectivity-verification-type? ipi-bfd-types:oambfd_mpls_cv_type_t
| | | +--ro attachment-circuit-index? uint32
| | | +--ro tunnel-label?            uint32
| | | +--ro peer-address?            inet:ipv4-address
| | +--ro transport-profile
| +--ro packet
| +--ro clients
|   +--ro client* [index]
|     +--ro index  -> ../state/index
|     +--ro state
|       +--ro index? uint32
|       +--ro flags? ipi-bfd-types:oambfd_client_flags_t
+--ro mpls-lsp
| +--ro summary
| | +--ro state
| |   +--ro number-of-sessions?      uint32
| |   +--ro number-of-sessions-up?    uint32
| |   +--ro number-of-sessions-down?  uint32
| |   +--ro number-of-sessions-admin-down? uint32
| +--ro egress-sessions
| | +--ro egress-session* [local-discriminator]
| |   +--ro local-discriminator  -> ../state/local-discriminator
| |   +--ro state
| |     +--ro local-multiplier?    uint32
| |     +--ro fec-address?          cml-data-types:cml_ipv4_addr_prefix_t
| |     +--ro local-discriminator? string
| |     +--ro remote-discriminator? string
| |     +--ro source-port?          inet:port-number
| |     +--ro destination-port?     inet:port-number
| +--ro session-groups
|   +--ro session-group* [lsp-type fec-address]
|     +--ro lsp-type  -> ../state/lsp-type

```

```

|   +--ro fec-address   -> ../state/fec-address
|   +--ro state
|   |   +--ro lsp-type?   ipi-bfd-types:mpls_bfd_lsp_type_t
|   |   +--ro fec-address? cml-data-types:cml_ipv4_addr_prefix_t
|   +--ro sessions
|       +--ro session* [lsp-type]
|           +--ro lsp-type   -> ../state/lsp-type
|           +--ro state
|               |   +--ro lsp-type?           ipi-bfd-types:mpls_bfd_all_lsp_type_t
|               |   +--ro ip-encapsulation?    empty
|               |   +--ro remote-multiplier?    uint32
|               |   +--ro fec-address?          cml-data-types:cml_ipv4_addr_prefix_t
|               |   +--ro local-discriminator?  string
|               |   +--ro remote-discriminator? string
|               |   +--ro source-port?          inet:port-number
|               |   +--ro destination-port?     inet:port-number
|               |   +--ro session-index?        uint32
|               |   +--ro local-state?          ipi-bfd-types:mpls_bfd_session_state_t
|               |   +--ro remote-state?         ipi-bfd-types:mpls_bfd_session_state_t
|               |   +--ro local-diagnostic?     ipi-bfd-types:mpls_bfd_diag_info_t
|               |   +--ro remote-diagnostic?    ipi-bfd-types:mpls_bfd_diag_info_t
|               |   +--ro negotiated-tx-interval? uint32
|               |   +--ro negotiated-rx-interval? uint32
|               +--ro statistics
|                   +--ro state
|                       +--ro create-time?      yang:timeticks
|                       +--ro last-down-time?   yang:timeticks
|                       +--ro last-up-time?     yang:timeticks
|                       +--ro down-count?       yang:counter32
|                       +--ro admin-down-count? yang:counter32
|                       +--ro receive-packet-count? yang:counter64
|                       +--ro send-packet-count? yang:counter64
+--ro mpls-te
    +--ro summary
        |   +--ro state
        |   +--ro number-of-sessions?          uint32

```

```
|  +--ro number-of-sessions-up?      uint32
|  +--ro number-of-sessions-down?    uint32
|  +--ro number-of-sessions-admin-down? uint32
+--ro egress-sessions
|  +--ro egress-session* [fec-address]
|  +--ro fec-address  -> ../state/fec-address
|  +--ro state
|    +--ro local-multiplier?    uint32
|    +--ro fec-address?        cml-data-types:cml_ipv4_addr_prefix_t
|    +--ro local-discriminator? string
|    +--ro remote-discriminator? string
|    +--ro source-port?        inet:port-number
|    +--ro destination-port?    inet:port-number
+--ro mpls-tunnels
  +--ro mpls-tunnel* [lsp-type tunnel-name]
    +--ro lsp-type  -> ../state/lsp-type
    +--ro tunnel-name -> ../state/tunnel-name
    +--ro state
    |  +--ro lsp-type?    ipi-bfd-types:mpls_bfd_te_type_t
    |  +--ro tunnel-name? string
    +--ro sessions
      +--ro session* [lsp-type]
        +--ro lsp-type  -> ../state/lsp-type
        +--ro state
        |  +--ro lsp-type?      ipi-bfd-types:mpls_bfd_all_lsp_type_t
        |  +--ro ip-encapsulation? empty
        |  +--ro remote-multiplier? uint32
        |  +--ro fec-address?      cml-data-types:cml_ipv4_addr_prefix_t
        |  +--ro local-discriminator? string
        |  +--ro remote-discriminator? string
        |  +--ro source-port?      inet:port-number
        |  +--ro destination-port?  inet:port-number
        |  +--ro session-index?    uint32
        |  +--ro local-state?      ipi-bfd-types:mpls_bfd_session_state_t
        |  +--ro remote-state?     ipi-bfd-types:mpls_bfd_session_state_t
        |  +--ro local-diagnostic? ipi-bfd-types:mpls_bfd_diag_info_t
```

```

| +--ro remote-diagnostic?    ipi-bfd-types:mpls_bfd_diag_info_t
| +--ro negotiated-tx-interval? uint32
| +--ro negotiated-rx-interval? uint32
+--ro statistics
  +--ro state
    +--ro create-time?        yang:timeticks
    +--ro last-down-time?     yang:timeticks
    +--ro last-up-time?       yang:timeticks
    +--ro down-count?         yang:counter32
    +--ro admin-down-count?    yang:counter32
    +--ro receive-packet-count? yang:counter64
    +--ro send-packet-count?    yang:counter64

```

rpcs:

```

+---x bfd-snmp-restart {feature-list:HAVE_SNMP}?
+---x bfd-terminal-debug-on {feature-list:HAVE_BFD}?
| +---w input
|   +---w terminal-debug-options ipi-bfd-types:bfd_debug_t
+---x bfd-terminal-debug-off {feature-list:HAVE_BFD}?
| +---w input
|   +---w terminal-debug-options ipi-bfd-types:bfd_debug_t
+---x debug-oam-srv6-on {feature-list:HAVE_SRV6}?
+---x debug-oam-srv6-off {feature-list:HAVE_SRV6}?

```

notifications:

```

+---n bfd-session-state-change
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t
  +--ro local-discriminator? string
  +--ro vrf-name?          string
  +--ro session-state?      ipi-bfd-types:oambfd_session_state_t
  +--ro session-diagnostics? ipi-bfd-types:oambfd_perform_diag_t

```

ipi-bgp-vrf

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```
+--rw bgp-vrf
  +--rw config
    | +--rw import-map?  string
    | +--rw export-map?  string
    | +--rw rd-string?   string
  +--ro state
    | +--ro counters
    | | +--ro neighbor-rx-tx-stat
    | | | +--ro messages-sent?      uint32
    | | | +--ro messages-received?  uint32
    | | | +--ro bytes-sent?         uint32
    | | | +--ro bytes-received?     uint32
    | | | +--ro opens-sent?         uint32
    | | | +--ro opens-received?     uint32
    | | | +--ro updates-sent?       uint32
    | | | +--ro updates-received?   uint32
    | | | +--ro keepalive-sent?     uint32
    | | | +--ro keepalive-received? uint32
    | | | +--ro notification-sent?  uint32
    | | | +--ro notification-received? uint32
    | | | +--ro route-refresh-sent? uint32
```



```
| | | +--ro route-refresh-received? uint32
| | | +--ro capabilities-sent?      uint32
| | | +--ro capabilities-received?  uint32
| | +--ro local-input-output
| | | +--ro active-open?            uint16
| | | +--ro passive-open?          uint16
| | | +--ro open-loops?            uint16
| | | +--ro open-calls?            uint16
| | | +--ro open-received-calls?   uint16
| | | +--ro send-calls?            uint16
| | | +--ro received-calls?        uint16
| | | +--ro write-calls?           uint16
| | | +--ro write-loops?           uint16
| | | +--ro write-loops-yield?     uint16
| | | +--ro read-calls?            uint16
| | | +--ro read-loops?            uint16
| | | +--ro read-loop-yield?       uint16
| | | +--ro process-nlri-yields?   uint16
| | | +--ro process-withdraw-yields? uint16
| | | +--ro read-time-exceed?      uint16
| | | +--ro update-send-pending?   uint16
| | | +--ro update-buffer-not-available? uint16
| | | +--ro update-walk-suspend?   uint16
| | | +--ro yield-in-update?       uint16
| | | +--ro yield-in-pack?         uint16
| | | +--ro no-send-buffer-peer?   uint16
| | | +--ro no-withdraw-buffer-peer? uint16
| | | +--ro yields-in-update-peer-loop? uint16
| | | +--ro no-updates-pending-or-no-buffers? uint16
| | | +--ro no-data-to-write?      uint16
| | | +--ro message-queue-received-error? uint16
| | +--ro sockets
| | | +--ro created?              uint32
| | | +--ro accepted?            uint32
| | | +--ro closed?              uint32
| | | +--ro create-retries?       uint32
```

```

| | +--ro create-failures?  uint32
| | +--ro fd-close-session? uint32
| +--ro import-map?  string
| +--ro export-map?  string
| +--ro rd-string?   string
+--ro next-hop-tracking
| +--ro state
|   +--ro bgp-as?          uint32
|   +--ro router-id?       inet:ipv4-address
|   +--ro configured?      boolean
|   +--ro delay-time?      uint32
|   +--ro received-message-count? cml-data-types:cml_line_t
|   +--ro ipv4-count?      int32
|   +--ro ipv6-count?      int32
|   +--ro delay-time-remaining? int32
+--rw route-targets
| +--rw route-target* [rt-rd-string]
|   +--rw rt-rd-string  -> ../config/rt-rd-string
|   +--rw config
|     | +--rw rt-rd-string? ipi-bgp-types:bgp_route_target_type_t
|     | +--rw direction    ipi-bgp-types:bgp_target_route_type_t
|     +--ro state
|       +--ro rt-rd-string? ipi-bgp-types:bgp_route_target_type_t
|       +--ro direction    ipi-bgp-types:bgp_target_route_type_t
+--ro bgp-rd
  +--ro bgp-rd-as
  | +--ro state
  |   +--ro brd-as?      uint16
  |   +--ro brd-as-number? uint32
  +--ro bgp-rd-as4
  | +--ro state
  |   +--ro brd-as4?     uint32
  |   +--ro brd-as-num4? uint16
  +--ro bgp-rd-ip
  | +--ro state
  |   +--ro brd-ip?      inet:ipv4-address

```

```

    +--ro brd-ip-number?  int32
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw evpn-service-type {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN}?
    +--rw config
      | +--rw service-type?  cml-data-types:cml_evpn_service_type_t
    +--ro state
      +--ro service-type?  cml-data-types:cml_evpn_service_type_t

```

ipi-bgp

```

+--rw bgp
  +--rw global
    | +--rw config
    | | +--rw enable-aggregate-nexthop?      empty
    | | +--rw enable-path-select?            empty
    | | +--rw disable-rfc7606-error-handling? empty
    | | +--rw enable-bogon-filtering?        empty
    | | +--rw enable-extended-asn-capability? empty {feature-list:HAVE_EXT_CAP_ASN}?
    | | +--rw enable-nexthop-tracking?        empty
    | | +--rw nexthop-tracking-delay?         uint8
    | | +--rw enable-rfc-1771-strict-origin?  empty
    | +--ro state
    | | +--ro enable-aggregate-nexthop?      empty
    | | +--ro enable-path-select?            empty
    | | +--ro disable-rfc7606-error-handling? empty
    | | +--ro enable-bogon-filtering?        empty
    | | +--ro enable-extended-asn-capability? empty {feature-list:HAVE_EXT_CAP_ASN}?
    | | +--ro enable-nexthop-tracking?        empty
    | | +--ro nexthop-tracking-delay?         uint8
    | | +--ro enable-rfc-1771-strict-origin?  empty
    | +--rw community-lists
    | | +--rw numbered-lists
    | | | +--rw numbered-list* [standard-number]
    | | |   +--rw standard-number  -> ../config/standard-number
    | | |   +--rw config
    | | | | +--rw standard-number?  uint32

```

```

| | | +--ro state
| | | | +--ro standard-number? uint32
| | | +--rw action-for-any
| | | | +--rw config!
| | | | | +--rw action-name ipi-bgp-types:bgp_community_list_action_t
| | | | +--ro state
| | | | +--ro action-name ipi-bgp-types:bgp_community_list_action_t
| | | +--rw action-list-values
| | | +--rw action-list-value* [action-standard-number standard-number-value]
| | | +--rw action-standard-number -> ../config/action-standard-number
| | | +--rw standard-number-value -> ../config/standard-number-value
| | | +--rw config
| | | | +--rw action-standard-number? ipi-bgp-types:bgp_community_list_action_t
| | | | +--rw standard-number-value? string
| | | +--ro state
| | | +--ro action-standard-number? ipi-bgp-types:bgp_community_list_action_t
| | | +--ro standard-number-value? string
| | +--rw standards
| | | +--rw standard* [list-type name]
| | | +--rw list-type -> ../config/list-type
| | | +--rw name -> ../config/name
| | | +--rw config
| | | | +--rw list-type? ipi-bgp-types:bgp_community_list_type_t
| | | | +--rw name? string
| | | +--ro state
| | | | +--ro list-type? ipi-bgp-types:bgp_community_list_type_t
| | | | +--ro name? string
| | | +--rw action-for-any
| | | | +--rw config!
| | | | | +--rw action-name ipi-bgp-types:bgp_community_list_action_t
| | | | +--ro state
| | | | +--ro action-name ipi-bgp-types:bgp_community_list_action_t
| | | +--rw action-values
| | | +--rw action-value* [action-name-standard community-value-standard]
| | | +--rw action-name-standard -> ../config/action-name-standard
| | | +--rw community-value-standard -> ../config/community-value-standard

```

```

| | |      +--rw config
| | |      | +--rw action-name-standard?   ipi-bgp-types:bgp_community_list_action_t
| | |      | +--rw community-value-standard? string
| | |      +--ro state
| | |      +--ro action-name-standard?   ipi-bgp-types:bgp_community_list_action_t
| | |      +--ro community-value-standard? string
| | +--rw expanded-lists
| | | +--rw expanded-list* [list-type expanded-type]
| | |   +--rw list-type      -> ../config/list-type
| | |   +--rw expanded-type  -> ../config/expanded-type
| | |   +--rw config
| | |   | +--rw list-type?    ipi-bgp-types:bgp_expanded_list_t
| | |   | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | |   +--ro state
| | |   | +--ro list-type?    ipi-bgp-types:bgp_expanded_list_t
| | |   | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | |   +--rw action-values
| | |   +--rw action-value* [action-expanded regular-expression-list]
| | |   +--rw action-expanded      -> ../config/action-expanded
| | |   +--rw regular-expression-list -> ../config/regular-expression-list
| | |   +--rw config
| | |   | +--rw action-expanded?      ipi-bgp-types:bgp_community_list_action_t
| | |   | +--rw regular-expression-list? cml-data-types:cml_line_t
| | |   +--ro state
| | |   +--ro action-expanded?      ipi-bgp-types:bgp_community_list_action_t
| | |   +--ro regular-expression-list? cml-data-types:cml_line_t
| | +--rw extended-community
| | | +--rw numbered-lists
| | | | +--rw numbered-list* [standard-number]
| | | |   +--rw standard-number -> ../config/standard-number
| | | |   +--rw config
| | | |   | +--rw standard-number? uint32
| | | |   +--ro state
| | | |   | +--ro standard-number? uint32
| | | |   +--rw action-values
| | | |   +--rw action-value* [extended-action-number extended-route-target-soo extended-value]

```

```

| | | |   +--rw extended-action-number   -> ../config/extended-action-number
| | | |   +--rw extended-route-target-soo -> ../config/extended-route-target-soo
| | | |   +--rw extended-value           -> ../config/extended-value
| | | |   +--rw config
| | | |   | +--rw extended-action-number? ipi-bgp-types:bgp_community_list_action_t
| | | |   | +--rw extended-route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | |   | +--rw extended-value?         string
| | | |   +--ro state
| | | |       +--ro extended-action-number? ipi-bgp-types:bgp_community_list_action_t
| | | |       +--ro extended-route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | |       +--ro extended-value?         string
| | | +--rw standards
| | | | +--rw standard* [name]
| | | |   +--rw name           -> ../config/name
| | | |   +--rw config
| | | |   | +--rw name?      string
| | | |   +--ro state
| | | |   | +--ro name?     string
| | | |   +--rw action-values
| | | |       +--rw action-value* [extended-action route-target-soo value]
| | | |       +--rw extended-action   -> ../config/extended-action
| | | |       +--rw route-target-soo   -> ../config/route-target-soo
| | | |       +--rw value             -> ../config/value
| | | |       +--rw config
| | | |       | +--rw extended-action? ipi-bgp-types:bgp_community_list_action_t
| | | |       | +--rw route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | |       | +--rw value?          string
| | | |       +--ro state
| | | |           +--ro extended-action? ipi-bgp-types:bgp_community_list_action_t
| | | |           +--ro route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | |           +--ro value?          string
| | | +--rw expanded-lists
| | | | +--rw expanded-list* [list-type expanded-type]
| | | |   +--rw list-type   -> ../config/list-type
| | | |   +--rw expanded-type -> ../config/expanded-type
| | | |   +--rw config

```

```

| | | | +--rw list-type?    ipi-bgp-types:bgp_ext_expanded_list_t
| | | | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | | +--ro state
| | | | +--ro list-type?    ipi-bgp-types:bgp_ext_expanded_list_t
| | | | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | | +--rw action-values
| | | |   +--rw action-value* [action value]
| | | |   +--rw action    -> ../config/action
| | | |   +--rw value     -> ../config/value
| | | |   +--rw config
| | | |   | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| | | |   | +--rw value? cml-data-types:cml_line_t
| | | |   +--ro state
| | | |     +--ro action? ipi-bgp-types:bgp_community_list_action_t
| | | |     +--ro value?  cml-data-types:cml_line_t
| | +--rw large-community
| |   +--rw numbered-lists
| |     +--rw numbered-list* [standard-number]
| |     +--rw standard-number -> ../config/standard-number
| |     +--rw config
| |     | +--rw standard-number? uint32
| |     | +--ro state
| |     | +--ro standard-number? uint32
| |     | +--rw action-values
| |     |   +--rw action-value* [large-action-number large-value]
| |     |   +--rw large-action-number -> ../config/large-action-number
| |     |   +--rw large-value        -> ../config/large-value
| |     |   +--rw config
| |     |   | +--rw large-action-number? ipi-bgp-types:bgp_community_list_action_t
| |     |   | +--rw large-value?        cml-data-types:cml_line_t
| |     |   +--ro state
| |     |     +--ro large-action-number? ipi-bgp-types:bgp_community_list_action_t
| |     |     +--ro large-value?        cml-data-types:cml_line_t
| |   +--rw standard-lists
| |     +--rw standard-list* [list-type standard-type]
| |     +--rw list-type    -> ../config/list-type

```

```

| | | +--rw standard-type -> ../config/standard-type
| | | +--rw config
| | | | +--rw list-type? ipi-bgp-types:bgp_standard_list_t
| | | | +--rw standard-type? ipi-bgp-types:bgp_standard_list_type_t
| | | +--ro state
| | | | +--ro list-type? ipi-bgp-types:bgp_standard_list_t
| | | | +--ro standard-type? ipi-bgp-types:bgp_standard_list_type_t
| | | +--rw action-values
| | | | +--rw action-value* [action value]
| | | | +--rw action -> ../config/action
| | | | +--rw value -> ../config/value
| | | | +--rw config
| | | | | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| | | | | +--rw value? cml-data-types:cml_line_t
| | | | +--ro state
| | | | | +--ro action? ipi-bgp-types:bgp_community_list_action_t
| | | | | +--ro value? cml-data-types:cml_line_t
| | +--rw expanded-lists
| | | +--rw expanded-list* [list-type expanded-type]
| | | +--rw list-type -> ../config/list-type
| | | +--rw expanded-type -> ../config/expanded-type
| | | +--rw config
| | | | +--rw list-type? ipi-bgp-types:bgp_large_expanded_list_t
| | | | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | +--ro state
| | | | +--ro list-type? ipi-bgp-types:bgp_large_expanded_list_t
| | | | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | +--rw action-values
| | | | +--rw action-value* [action value]
| | | | +--rw action -> ../config/action
| | | | +--rw value -> ../config/value
| | | | +--rw config
| | | | | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| | | | | +--rw value? cml-data-types:cml_line_t
| | | | +--ro state
| | | | | +--ro action? ipi-bgp-types:bgp_community_list_action_t

```



```
| |      +--ro value?  cml-data-types:cml_line_t
| +--rw as-path-access-lists
| | +--rw as-path-access-list* [access-list-name access-list-action access-list-regular-expression]
| |   +--rw access-list-name      -> ../config/access-list-name
| |   +--rw access-list-action     -> ../config/access-list-action
| |   +--rw access-list-regular-expression -> ../config/access-list-regular-expression
| |   +--rw config
| |     | +--rw access-list-name?      string
| |     | +--rw access-list-action?    ipi-bgp-types:bgp_community_list_action_t
| |     | +--rw access-list-regular-expression? cml-data-types:cml_line_t
| |     +--ro state
| |       +--ro access-list-name?      string
| |       +--ro access-list-action?    ipi-bgp-types:bgp_community_list_action_t
| |       +--ro access-list-regular-expression? cml-data-types:cml_line_t
| +--rw mpls-l3vpn-label-modes
| | +--rw mpls-l3vpn-label-mode* [address-family-name vrf-name] {feature-list:HAVE_MPLS}?
| |   +--rw address-family-name -> ../config/address-family-name
| |   +--rw vrf-name            -> ../config/vrf-name
| |   +--rw config
| |     | +--rw address-family-name? ipi-bgp-types:bgp_af_config_t
| |     | +--rw vrf-name?           ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |     | +--rw label-alloc-type    ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| |     +--ro state
| |       +--ro address-family-name? ipi-bgp-types:bgp_af_config_t
| |       +--ro vrf-name?           ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |       +--ro label-alloc-type    ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| +--rw mpls-6pe {feature-list:HAVE_MPLS,feature-list:HAVE_6PE}?
| | +--rw config
| | | +--rw enable-per-prefix-label-mode? empty
| | +--ro state
| |   +--ro enable-per-prefix-label-mode? empty
| +--rw debug
|   +--rw config
|   | +--rw options? ipi-bgp-types:bgp_debug_t
|   +--ro state
|     +--ro terminal-debug-status
```

```

|   | +--ro terminal-debug-status? ipi-bgp-types:bgp_debug_t
|   +--ro options?                ipi-bgp-types:bgp_debug_t
+--rw bgp-instances
| +--rw bgp-instance* [bgp-as]
|   +--rw bgp-as                  -> ../config/bgp-as
|   +--rw config
|   | +--rw bgp-as?                uint32
|   | +--rw router-id?             inet:ipv4-address
|   | +--rw cluster-id?            ipi-bgp-types:bgp_cluster_id_t
|   | +--rw local-preference?      uint32
|   | +--rw graceful-shutdown-capable? empty
|   | +--rw graceful-shutdown?     empty
|   | +--rw graceful-shutdown-local-preference? uint32
|   | +--rw inbound-route-filter-disable? empty {feature-list:HAVE_VRF}?
|   | +--rw external-route-leak-disable? empty {feature-list:HAVE_VRF}?
|   | +--rw log-neighbor-changes?  empty
|   | +--rw scan-interval?         uint32
|   | +--rw best-path-dont-compare-originator? empty
|   | +--rw no-best-path-tie-break? empty
|   | +--rw enable-deterministic-med? empty
|   | +--rw enforce-first-as-for-ebgp? empty
|   | +--rw no-external-fail-over?  empty
|   | +--rw local-as-count?         uint8
|   | +--rw no-client-route-reflection? empty
|   | +--rw med-type?               ipi-bgp-types:bgp_med_type_t
|   | +--rw multi-path-relax?       empty
|   | +--rw enable-mpls-nexthop-tracking? empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
|   | +--rw ignore-aigp-for-bestpath? empty {feature-list:HAVE_BGP_AIGP}?
|   | +--rw auto-policy-soft-reset? empty
|   +--rw confederation
|   | +--rw config
|   | | +--rw identifier?          uint32
|   | | +--rw peer-as-number*      uint32
|   | +--ro state
|   |   +--ro identifier?          uint32
|   |   +--ro peer-as-number*      uint32

```

```

|   +--rw confederation-vrfs
|   |   +--rw confederation-vrf* [confed-vrf-name]
|   |   |   +--rw confed-vrf-name   -> ../config/confed-vrf-name
|   |   |   +--rw config
|   |   |   |   +--rw identifier?      uint32
|   |   |   |   |   +--rw peer-as-number*  uint32
|   |   |   |   |   +--rw confed-vrf-name? string
|   |   |   |   +--ro state
|   |   |   |   |   +--ro identifier?      uint32
|   |   |   |   |   +--ro peer-as-number*  uint32
|   |   |   |   |   +--ro confed-vrf-name? string
|   |   +--rw view-lists
|   |   |   +--rw view-list* [view-name]
|   |   |   |   +--rw view-name   -> ../config/view-name
|   |   |   |   +--rw config
|   |   |   |   |   +--rw view-name? string
|   |   |   |   +--ro state
|   |   |   |   |   +--ro view-name? string
|   |   +--ro state
|   |   |   +--ro version?          ipi-bgp-types:bgp_version_t
|   |   |   +--ro table-version?    int32
|   |   |   +--ro total-prefixes?   int32
|   |   |   +--ro router-run-time-ip-address?  inet:ipv4-address
|   |   |   +--ro scan-remain-time?  uint32
|   |   |   +--ro bgp-as?            uint32
|   |   |   +--ro router-id?         inet:ipv4-address
|   |   |   +--ro cluster-id?       ipi-bgp-types:bgp_cluster_id_t
|   |   |   +--ro local-preference?  uint32
|   |   |   +--ro graceful-shutdown-capable?  empty
|   |   |   +--ro graceful-shutdown?    empty
|   |   |   +--ro graceful-shutdown-local-preference?  uint32
|   |   |   +--ro inbound-route-filter-disable?  empty {feature-list:HAVE_VRF}?
|   |   |   +--ro external-route-leak-disable?  empty {feature-list:HAVE_VRF}?
|   |   |   +--ro log-neighbor-changes?  empty
|   |   |   +--ro scan-interval?        uint32
|   |   +--ro best-path-dont-compare-originator?  empty

```

```

| | +--ro no-best-path-tie-break?      empty
| | +--ro enable-deterministic-med?    empty
| | +--ro enforce-first-as-for-ebgp?   empty
| | +--ro no-external-fail-over?      empty
| | +--ro local-as-count?             uint8
| | +--ro no-client-route-reflection?  empty
| | +--ro med-type?                   ipi-bgp-types:bgp_med_type_t
| | +--ro multi-path-relax?           empty
| | +--ro enable-mpls-nexthop-tracking? empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
| | +--ro ignore-aigp-for-bestpath?    empty {feature-list:HAVE_BGP_AIGP}?
| | +--ro auto-policy-soft-reset?      empty
| +--rw graceful-restart
| | +--rw config
| | | +--rw enable-graceful-restart?   empty {feature-list:HAVE_RESTART}?
| | | +--rw restart-time?              uint32 {feature-list:HAVE_RESTART}?
| | | +--rw stale-path-max-retention-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--rw route-selection-max-defer-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--rw graceful-reset?            empty
| | +--ro state
| | | +--ro enable-graceful-restart?    empty {feature-list:HAVE_RESTART}?
| | | +--ro restart-time?               uint32 {feature-list:HAVE_RESTART}?
| | | +--ro stale-path-max-retention-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--ro route-selection-max-defer-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--ro graceful-reset?             empty
| +--rw timers
| | +--rw config!
| | | +--rw keep-alive   uint16
| | | +--rw hold-time    uint16
| | +--ro state
| | | +--ro keep-alive   uint16
| | | +--ro hold-time    uint16
| +--rw route-selection
| | +--rw config
| | | +--rw always-compare-med?      empty
| | | +--rw ignore-as-path-length?   empty
| | | +--rw best-path-compare-confed? empty

```

```

| | | +--rw external-compare-router-id? empty
| | +--ro state
| |   +--ro always-compare-med? empty
| |   +--ro ignore-as-path-length? empty
| |   +--ro best-path-compare-confed? empty
| |   +--ro external-compare-router-id? empty
| +--rw administrative-distances
| | +--rw administrative-distance* [source-ip-prefix]
| |   +--rw source-ip-prefix -> ../config/source-ip-prefix
| |   +--rw config
| |     | +--rw source-ip-prefix? cml-data-types:cml_ipv4_prefix_t
| |     | | +--rw distance uint8
| |     | | +--rw access-list-name? string
| |     | +--ro state
| |     |   +--ro source-ip-prefix? cml-data-types:cml_ipv4_prefix_t
| |     |   +--ro distance uint8
| |     |   +--ro access-list-name? string
| +--ro rib
| | +--ro address-family* [afi safi]
| |   +--ro afi -> ../state/afi
| |   +--ro safi -> ../state/safi
| |   +--ro state
| |     | +--ro afi? ipi-bgp-types:bgp_afi_type_t
| |     | +--ro safi? ipi-bgp-types:bgp_safi_type_t
| |     +--ro routes
| |       | +--ro route* [network-address route-distinguisher]
| |       |   +--ro network-address -> ../state/network-address
| |       |   +--ro route-distinguisher -> ../state/route-distinguisher
| |       |   +--ro next-hop* [next-hop-address]
| |       |     | +--ro next-hop-address -> ../state/next-hop-address
| |       |     | +--ro state
| |       |     |   +--ro next-hop-address? ipi-bgp-types:bgp_hostname_t
| |       |     |   +--ro peer-network-weight? uint32
| |       |     |   +--ro flap-time-reuse-list? string
| |       |     |   +--ro flap-record-duration? string
| |       |     |   +--ro damp-time-to-reuse? string

```

				+++ro bgp-med-value?	uint32
				+++ro bgp-as-path-string*	cml-data-types:cml_line_t
				+++ro bgp-as-path-4-byte-string*	string
				+++ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
				+++ro ibgp-metric-route?	int32
				+++ro aggregate-as-route?	int32
				+++ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
				+++ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
				+++ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
				+++ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
				+++ro route-local-preference?	uint32
				+++ro route-prefix-label?	uint32
				+++ro route-community-string?	cml-data-types:cml_line_t
				+++ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
				+++ro route-penalty?	int32
				+++ro route-flap-count?	int32
				+++ro last-update-route?	yang:date-and-time
				+++ro reflector-client-route?	boolean
				+++ro route-dampening-active?	boolean
				+++ro history-route?	boolean
				+++ro nexthop-valid-route?	boolean
				+++ro med-flag-type-route?	boolean
				+++ro valid-route?	boolean
				+++ro stale-route?	boolean
				+++ro route-type?	ipi-bgp-types:bgp_ri_type_t
				+++ro ecmp-multi-candidate-route?	boolean
				+++ro multi-installed-route?	boolean
				+++ro route-synchronized-flag-route?	boolean
				+++ro atomic-aggregate-route?	boolean
				+++ro selected-route?	boolean
				+++ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+++ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+++ro ipv4-multicast-capability?	string
				+++ro vpnv4-unicast-capability?	string
				+++ro rtfILTER-unicast-capability?	string
				+++ro l2vpn-evpn-capability?	string

```

| | | | +--ro ipv6-unicast-capability?    string
| | | | +--ro ipv6-multicast-capability?  string
| | | | +--ro ipv6-label-unicast-capability? string
| | | | +--ro in-label?                    uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro out-label?                   uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro as-origin-validation-state?  ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | +--ro vrf-name?                    string {feature-list:HAVE_MPLS}?
| | | | +--ro route-distinguisher?        string {feature-list:HAVE_MPLS}?
| | | +--ro state
| | |   +--ro network-address?            ipi-bgp-types:bgp_ip_network_t
| | |   +--ro route-distinguisher?       string
| | +--ro evpn-routes
| |   +--ro evpn-route* [route-distinguisher]
| |     +--ro route-distinguisher        -> ../state/route-distinguisher
| |     +--ro state
| |       +--ro route-distinguisher?     string
| |       +--ro vrf-name?                 string
| |       +--ro mac-ip-route* [host-mac-address host-ip-address ethernet-tag-identifier next-hop-address]
| |         +--ro host-mac-address        -> ../state/host-mac-address
| |         +--ro host-ip-address         -> ../state/host-ip-address
| |         +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| |         +--ro next-hop-address        -> ../state/next-hop-address
| |         +--ro state
| |           +--ro host-mac-address?      cml-data-types:cml_mac_addr_t
| |           +--ro host-ip-address?      inet:ip-address
| |           +--ro ethernet-tag-identifier? uint32
| |           +--ro next-hop-address?     inet:ipv4-address
| |           +--ro encapsulation-type?    string
| |           +--ro ethernet-segment-identifier? string
| |           +--ro l2-label?              uint32
| |           +--ro l3-label?              uint32
| |           +--ro inclusive-multicast-route* [ethernet-tag-identifier originating-router-ip-address]
| |             +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| |             +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| |             +--ro state
| |             +--ro ethernet-tag-identifier? uint32

```

```

| | | | +--ro originating-router-ip-address? inet:ipv4-address
| | | | +--ro next-hop-address?          inet:ipv4-address
| | | | +--ro encapsulation-type?        string
| | | +--ro ethernet-segment-route* [ethernet-segment-identifier originating-router-ip-address]
| | | | +--ro ethernet-segment-identifier -> ../state/ethernet-segment-identifier
| | | | +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| | | | +--ro state
| | | | +--ro ethernet-segment-identifier? string
| | | | +--ro originating-router-ip-address? inet:ipv4-address
| | | | +--ro next-hop-address?          inet:ipv4-address
| | | | +--ro encapsulation-type?        string
| | | +--ro ethernet-auto-discovery-route* [ethernet-segment-identifier ethernet-tag-identifier next-hop-address]
| | | | +--ro ethernet-segment-identifier -> ../state/ethernet-segment-identifier
| | | | +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | +--ro state
| | | | +--ro ethernet-segment-identifier? string
| | | | +--ro ethernet-tag-identifier? uint32
| | | | +--ro next-hop-address?          inet:ipv4-address
| | | | +--ro encapsulation-type?        string
| | | | +--ro label?                     uint32
| | | +--ro ip-prefix-route* [ethernet-segment-identifier ethernet-tag-identifier originating-router-ip-address]
| | | | +--ro ethernet-segment-identifier -> ../state/ethernet-segment-identifier
| | | | +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| | | | +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| | | | +--ro state
| | | | +--ro ethernet-segment-identifier? string
| | | | +--ro ethernet-tag-identifier? uint32
| | | | +--ro originating-router-ip-address? inet:ipv4-address
| | | | +--ro next-hop-address?          inet:ipv4-address
| | | | +--ro encapsulation-type?        string
| | | | +--ro l3-label?                  uint32
| | +--ro link-state {feature-list:HAVE_BGP_LS}?
| | | +--ro node-nlris
| | | | +--ro node-nlri* [nlri-key]
| | | | +--ro nlri-key -> ../state/nlri-key

```

```

| | | +--ro state
| | |   +--ro nlri-key?          string
| | |   +--ro nlri-origin?       string
| | |   +--ro protocol?          cml-data-types:cml_line_t
| | |   +--ro nlri-identifier?    string
| | |   +--ro nlri-bgp-as?        uint32
| | |   +--ro bgp-router-id?      inet:ipv4-address
| | |   +--ro local-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | |   +--ro local-bgp-as?        uint32 {feature-list:HAVE_BGP_EPE}?
| | |   +--ro ospf-area-id?       inet:ipv4-address
| | |   +--ro ospf-router-id?     inet:ipv4-address
| | |   +--ro isis-lsp-identifier? string
| | |   +--ro designated-router-id? inet:ipv4-address
| | |   +--ro range-size?          uint32
| | |   +--ro base-segment-identifier? uint32
| | | +--ro link-nlris
| | |   +--ro link-nlri* [nlri-key]
| | |   +--ro nlri-key  -> ../state/nlri-key
| | |   +--ro state
| | |     +--ro nlri-key?          string
| | |     +--ro nlri-origin?       string
| | |     +--ro protocol?          cml-data-types:cml_line_t
| | |     +--ro nlri-identifier?    string
| | |     +--ro nlri-bgp-as?        uint32
| | |     +--ro bgp-router-id?      inet:ipv4-address
| | |     +--ro local-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | |     +--ro local-bgp-as?        uint32 {feature-list:HAVE_BGP_EPE}?
| | |     +--ro ospf-area-id?       inet:ipv4-address
| | |     +--ro ospf-router-id?     inet:ipv4-address
| | |     +--ro isis-lsp-identifier? string
| | |     +--ro designated-router-id? inet:ipv4-address
| | |     +--ro ospf-remote-area-id? inet:ipv4-address
| | |     +--ro ospf-remote-router-id? inet:ipv4-address
| | |     +--ro remote-designated-router-id? inet:ipv4-address
| | |     +--ro remote-isis-lsp-id?  string
| | |     +--ro remote-bgp-as?        uint32 {feature-list:HAVE_BGP_EPE}?

```

```

| | | | +--ro remote-bgp-router-id?      inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | | | +--ro local-interface-ip?        inet:ipv4-address
| | | | +--ro remote-interface-ip?       inet:ipv4-address
| | | | +--ro igp-metric-id?             uint8
| | | | +--ro te-metric-id?              uint8
| | | | +--ro adjacent-segment-identifier? uint32
| | | | +--ro peer-node-segment-identifier? uint32 {feature-list:HAVE_BGP_EPE}?
| | | | +--ro peer-set-segment-identifier? uint32 {feature-list:HAVE_BGP_EPE}?
| | | | +--ro peer-adjacency-segment-identifier? uint32 {feature-list:HAVE_BGP_EPE}?
| | | +--ro prefix-nlris
| | |   +--ro prefix-nlri* [nlri-key]
| | |     +--ro nlri-key  -> ../state/nlri-key
| | |     +--ro state
| | |       +--ro nlri-key?      string
| | |       +--ro nlri-origin?   string
| | |       +--ro protocol?      cml-data-types:cml_line_t
| | |       +--ro nlri-identifier? string
| | |       +--ro nlri-bgp-as?   uint32
| | |       +--ro bgp-router-id? inet:ipv4-address
| | |       +--ro local-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | |       +--ro local-bgp-as?   uint32 {feature-list:HAVE_BGP_EPE}?
| | |       +--ro ospf-area-id?   inet:ipv4-address
| | |       +--ro ospf-router-id? inet:ipv4-address
| | |       +--ro isis-lsp-identifier? string
| | |       +--ro ospf-route-type? cml-data-types:cml_line_t
| | |       +--ro prefix?         inet:ipv4-address
| | |       +--ro prefix-length?  uint32
| | |       +--ro prefix-metric?  uint32
| | |       +--ro N-absolute-bit-flag? boolean
| | |       +--ro prefix-segment-identifier? uint32
| | +--ro flowspec-info {feature-list:HAVE_BGP_FLOWSPEC}?
| |   +--ro vrfs
| |     +--ro vrf* [vrf-name]
| |       +--ro vrf-name  -> ../state/vrf-name
| |       +--ro state
| |         | +--ro vrf-name? string

```

```

| | +--ro flows
| |   +--ro flow* [flow-key]
| |     +--ro flow-key  -> ../state/flow-key
| |     +--ro state
| |       | +--ro flow-key?  string
| |     +--ro matches
| |       | +--ro ip-addresses
| |         | +--ro state
| |           | +--ro destination-address?  ipi-bgp-types:bgp_ip_addr_t
| |           | +--ro source-address?      ipi-bgp-types:bgp_ip_addr_t
| |           | +--ro state
| |             | +--ro ip-protocol-operator-value*      string
| |             | +--ro tcp-udp-port-operator-value*      string
| |             | +--ro tcp-udp-destination-port-operator-value*  string
| |             | +--ro tcp-udp-source-port-operator-value*  string
| |             | +--ro packet-length-operator-value*      string
| |             | +--ro tcp-flags-operator-value*          string
| |             | +--ro icmp-type-operator-value*          string
| |             | +--ro icmp-code-operator-value*          string
| |             | +--ro dscp-operator-value*              string
| |             | +--ro fragment-operator-value*          string
| |     +--ro actions
| |       +--ro traffic-rate
| |         | +--ro state
| |           | +--ro rate?      uint32
| |           | +--ro rate-unit? ipi-bgp-flowspec-types:bgp_flowspec_rate_unit_t
| |       +--ro traffic-action
| |         | +--ro state
| |           | +--ro terminal-action?  empty
| |           | +--ro sample-action?   empty
| |       +--ro traffic-redirect
| |         | +--ro state
| |           | +--ro as-type?      ipi-bgp-flowspec-types:bgp_flowspec_redirect_as_type_t
| |           | +--ro route-target-as?  string
| |           | +--ro vrf-id?         uint32
| |           | +--ro fib-id?        uint32

```

```

| | | +--ro route-target-ip? string
| | | +--ro set-dscp
| | | +--ro state
| | | +--ro dscp? ipi-enhanced-pbr-types:epbr_hex_dscp_t
| +--rw allocate-label {feature-list:HAVE_BGP_LU}?
| | +--rw config
| | | +--rw all-routes? empty {feature-list:HAVE_BGP_LU}?
| | | +--rw route-map-name? string {feature-list:HAVE_BGP_LU}?
| | | +--ro state
| | | +--ro all-routes? empty {feature-list:HAVE_BGP_LU}?
| | | +--ro route-map-name? string {feature-list:HAVE_BGP_LU}?
| +--rw address-families
| | +--rw address-family* [afi safi]
| | | +--rw afi -> ../config/afi
| | | +--rw safi -> ../config/safi
| | | +--rw config
| | | | +--rw afi? ipi-bgp-types:bgp_afi_type_t
| | | | +--rw safi? ipi-bgp-types:bgp_safi_type_t
| | | | +--rw additional-path-fast-reroute? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | +--rw additional-paths-mode? ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw no-client-route-reflection? empty
| | | | +--rw multi-path? empty
| | | | +--rw enable-auto-summary? empty
| | | | +--rw enable-additional-path-pic? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | +--rw enable-network-igp-sync? empty
| | | | +--rw enable-igp-sync? empty
| | | | +--rw enable-bgp-implicit-null? empty
| | | +--ro state
| | | | +--ro afi? ipi-bgp-types:bgp_afi_type_t
| | | | +--ro safi? ipi-bgp-types:bgp_safi_type_t
| | | | +--ro additional-path-fast-reroute? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | +--ro additional-paths-mode? ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?

```

```

| | | +--ro additional-paths-best-select-count?  uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro no-client-route-reflection?          empty
| | | +--ro multi-path?                          empty
| | | +--ro enable-auto-summary?                 empty
| | | +--ro enable-additional-path-pic?          empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-network-igp-sync?            empty
| | | +--ro enable-igp-sync?                     empty
| | | +--ro enable-bgp-implicit-null?           empty
| | +--rw network-lists
| | | +--rw network-list* [local-network-prefix]
| | |   +--rw local-network-prefix  -> ../config/local-network-prefix
| | |   +--rw config
| | |     | +--rw local-network-prefix?  ipi-bgp-types:bgp_ip_network_t
| | |     | +--rw network-rmap-name?    string
| | |     | +--rw backdoor?             empty
| | |     +--ro state
| | |       +--ro network-path-route-count?  int32
| | |       +--ro no-advertise-route?        string
| | |       +--ro no-export-route?           boolean
| | |       +--ro local-as-route?            boolean
| | |       +--ro suppress-route?            boolean
| | |       +--ro network-best-path-route-count?  int32
| | |       +--ro ip-routing-table?          string
| | |       +--ro advertised-non-peer-group-address*  ipi-bgp-types:bgp_hostname_t
| | |       +--ro advertised-peer-group-name-route*  string
| | |       +--ro advertised-any-peer?          boolean
| | |       +--ro route-distinguisher-string?    string {feature-list:HAVE_MPLS}?
| | |       +--ro local-network-prefix?          ipi-bgp-types:bgp_ip_network_t
| | |       +--ro network-rmap-name?            string
| | |       +--ro backdoor?                     empty
| | +--rw aggregate-address-lists
| | | +--rw aggregate-address-list* [aggregate-address]
| | |   +--rw aggregate-address  -> ../config/aggregate-address
| | |   +--rw config
| | |     | +--rw aggregate-address?  cml-data-types:cml_ip_prefix_t
| | |     | +--rw aggregate-type?    ipi-bgp-types:bgp_aggregate_type_t

```

```

| | | +--ro state
| | |   +--ro aggregate-address?  cml-data-types:cml_ip_prefix_t
| | |   +--ro aggregate-type?     ipi-bgp-types:bgp_aggregate_type_t
| | +--rw distances
| | | +--rw distance* [ebgp ibgp local]
| | |   +--rw ebgp    -> ../config/ebgp
| | |   +--rw ibgp    -> ../config/ibgp
| | |   +--rw local   -> ../config/local
| | |   +--rw config
| | |     | +--rw ebgp?  uint8
| | |     | +--rw ibgp?  uint8
| | |     | +--rw local? uint8
| | |   +--ro state
| | |     +--ro ebgp?  uint8
| | |     +--ro ibgp?  uint8
| | |     +--ro local? uint8
| | +--rw maximum-paths
| | | +--rw config
| | | | +--rw ebgp-max-path?  int32
| | | | +--rw ibgp-max-path?  int32
| | | | +--rw eibgp-max-path? int32
| | | +--ro state
| | |   +--ro ebgp-max-path?  int32
| | |   +--ro ibgp-max-path?  int32
| | |   +--ro eibgp-max-path? int32
| | +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--rw config!
| | | | +--rw map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | | | +--rw table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--ro state
| | |   +--ro map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | |   +--ro table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | +--rw route-flap-dampenings
| | | +--rw route-flap-dampening* [enable-dampening]
| | |   +--rw enable-dampening -> ../config/enable-dampening
| | |   +--rw config

```

```

| | | | +--rw enable-dampening?   ipi-bgp-types:bgp_dampening_t
| | | | +--rw reach-half-life?    uint32
| | | | +--rw reuse-penalty?      uint32
| | | | +--rw suppress-penalty?   uint32
| | | | +--rw max-suppress-time?   uint32
| | | | +--rw unreach-half-life?   uint32
| | | | +--rw dampening-rmap-name? string
| | | +--ro state
| | |   +--ro enable-dampening?   ipi-bgp-types:bgp_dampening_t
| | |   +--ro reach-half-life?    uint32
| | |   +--ro reuse-penalty?      uint32
| | |   +--ro suppress-penalty?   uint32
| | |   +--ro max-suppress-time?   uint32
| | |   +--ro unreach-half-life?   uint32
| | |   +--ro dampening-rmap-name? string
| | |   +--ro maximum-penalty-ceil? int32
| | |   +--ro minimum-penalty-ceil? int32
| | +--rw route-redistribute-lists
| | | +--rw route-redistribute-list* [protocol-type]
| | |   +--rw protocol-type  -> ../config/protocol-type
| | |   +--rw config
| | | | +--rw protocol-type?    ipi-bgp-types:bgp_redistribute_type_t
| | | | +--rw redist-route-map-name  string
| | | +--ro state
| | |   +--ro protocol-type?    ipi-bgp-types:bgp_redistribute_type_t
| | |   +--ro redist-route-map-name  string
| | +--rw bgp-redistributes-ospf
| | | +--rw bgp-redistribute-ospf* [ospf-instance-number]
| | |   +--rw ospf-instance-number  -> ../config/ospf-instance-number
| | |   +--rw config
| | | | +--rw ospf-instance-number?    ipi-bgp-types:cml_ospf_area_id_t
| | | | +--rw redistribute-ospf-route-map?  string
| | | +--ro state
| | |   +--ro ospf-instance-number?    ipi-bgp-types:cml_ospf_area_id_t
| | |   +--ro redistribute-ospf-route-map?  string
| | +--rw bgp-srv6 {feature-list:HAVE_SRV6}?

```

```

| | | +--rw config!
| | | | +--rw bgpSRv6enable    empty
| | | | +--ro state
| | | | +--ro bgpSRv6enable    empty
| | | | +--rw locators
| | | |   +--rw locator* [bgpSRv6LocatorName]
| | | |     +--rw bgpSRv6LocatorName -> ../config/bgpSRv6LocatorName
| | | |     +--rw config
| | | |       | +--rw bgpSRv6LocatorName? string
| | | |       +--ro state
| | | |         +--ro bgpSRv6LocatorName? string
| | +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| |   +--rw config
| |     | +--rw validation-enable?    empty
| |     | +--rw bestpath-use-validity? empty
| |     | +--rw bestpath-allow-invalid? empty
| |     +--ro state
| |       +--ro validation-enable?    empty
| |       +--ro bestpath-use-validity? empty
| |       +--ro bestpath-allow-invalid? empty
| +--rw peer-groups
| | +--rw peer-group* [peer-group-tag]
| |   +--rw peer-group-tag -> ../config/peer-group-tag
| |   +--rw config
| |     | +--rw peer-group-tag?          string
| |     | +--rw peer-group-range          ipi-bgp-types:bgp_peer_group_type_t
| |     | +--rw group-limit?              uint16
| |     | +--rw peer-as?                  uint32
| |     | +--rw graceful-shut?            empty
| |     | +--rw enable-peer-bfd?          empty {feature-list:HAVE_BFD}?
| |     | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| |     | +--rw graceful-shutdown-timer?  uint32
| |     | +--rw peer-restart-time?        uint32 {feature-list:HAVE_RESTART}?
| |     | +--rw peer-description?         cml-data-types:cml_line_t
| |     | +--rw peer-connect-interval?    uint32
| |     | +--rw peer-as-origin-interval?  uint32

```

```

| | | +--rw min-route-advertisement-interval? uint32
| | | +--rw enable-dynamic-capability?      empty
| | | +--rw collide-established?            empty
| | | +--rw source-identifier?              string
| | | +--rw enforce-multi-hop?              empty
| | | +--rw neighbor-override-capability?   empty
| | | +--rw neighbor-strict-capability-match? empty
| | | +--rw disallow-infinite-hold-time?    empty
| | | +--rw neighbor-passive?               empty
| | | +--rw peer-shutdown?                  empty
| | | +--rw peer-shutdown-description?      cml-data-types:cml_line_t
| | | +--rw peer-port?                      uint16
| | | +--rw bgp-version?                    uint8
| | | +--rw enable-ext-opt-param-len?       empty
| | | +--rw tcp-adjust-mss?                 uint16
| | +--ro state
| | | +--ro peer-group-tag?                  string
| | | +--ro peer-group-range                 ipi-bgp-types:bgp_peer_group_type_t
| | | +--ro group-limit?                     uint16
| | | +--ro peer-type?                       ipi-bgp-types:bgp_peer_type_t
| | | +--ro peer-as?                         uint32
| | | +--ro graceful-shut?                   empty
| | | +--ro enable-peer-bfd?                  empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop?         empty {feature-list:HAVE_BFD}?
| | | +--ro graceful-shutdown-timer?          uint32
| | | +--ro peer-restart-time?                uint32 {feature-list:HAVE_RESTART}?
| | | +--ro peer-description?                 cml-data-types:cml_line_t
| | | +--ro peer-connect-interval?            uint32
| | | +--ro peer-as-origin-interval?          uint32
| | | +--ro min-route-advertisement-interval? uint32
| | | +--ro enable-dynamic-capability?        empty
| | | +--ro collide-established?              empty
| | | +--ro source-identifier?                string
| | | +--ro enforce-multi-hop?                empty
| | | +--ro neighbor-override-capability?     empty
| | | +--ro neighbor-strict-capability-match? empty

```

```

| | | +--ro disallow-infinite-hold-time?    empty
| | | +--ro neighbor-passive?              empty
| | | +--ro peer-shutdown?                 empty
| | | +--ro peer-shutdown-description?     cml-data-types:cml_line_t
| | | +--ro peer-port?                     uint16
| | | +--ro bgp-version?                   uint8
| | | +--ro enable-ext-opt-param-len?      empty
| | | +--ro tcp-adjust-mss?                uint16
| | +--rw timers
| | | +--rw config!
| | | | +--rw keep-alive    uint16
| | | | +--rw hold-time    uint16
| | | +--ro state
| | |   +--ro keep-alive    uint16
| | |   +--ro hold-time    uint16
| | +--rw ebgp-multihop
| | | +--rw config!
| | | | +--rw maximum-hop-count? uint8
| | | | +--rw enabled            empty
| | | +--ro state
| | |   +--ro maximum-hop-count? uint8
| | |   +--ro enabled            empty
| | +--rw bgp-passwords
| | | +--rw bgp-password* [password]
| | |   +--rw password -> ../config/password
| | |   +--rw config
| | | | +--rw password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | +--ro state
| | |   +--ro password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | +--rw optional-as-lists
| | | +--rw optional-as-list* [optional-as]
| | |   +--rw optional-as -> ../config/optional-as
| | |   +--rw config
| | | | +--rw optional-as?  uint32

```

```

| | | +--ro state
| | |   +--ro optional-as? uint32
| | +--rw local-as
| | | +--rw local-as-list* [peer-local-as]
| | |   +--rw peer-local-as -> ../config/peer-local-as
| | |   +--rw config
| | | | +--rw peer-local-as? uint32
| | | | +--rw no-prepend-local-as? empty
| | | | +--rw replace-local-as? empty
| | | +--ro state
| | |   +--ro peer-local-as? uint32
| | |   +--ro no-prepend-local-as? empty
| | |   +--ro replace-local-as? empty
| | +--rw address-families
| | | +--rw address-family* [afi safi]
| | |   +--rw afi -> ../config/afi
| | |   +--rw safi -> ../config/safi
| | |   +--rw config
| | | | +--rw afi? ipi-bgp-types:bgp_afi_type_t
| | | | +--rw safi? ipi-bgp-types:bgp_safi_type_t
| | | | +--rw additional-paths-mode? ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw route-server-client? empty
| | | | +--rw next-hop-self? empty
| | | | +--rw activate? empty
| | | | +--rw default-peer-route-map-name? empty
| | | | +--rw peer-route-map-orig-name? string
| | | | +--rw weight? uint16
| | | | +--rw flowspec-validation-disable? empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--rw peer-route-reflector? empty
| | | | +--rw peer-remove-private-as? empty
| | | | +--rw no-send-community? empty
| | | | +--rw no-send-community-type? ipi-bgp-types:bgp_send_commu_type_t
| | | | +--rw neighbor-attribute-unchanged? ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--rw orf-prefix-capability? ipi-bgp-types:bgp_orf_prefix_type_t

```

```

| | | +--rw peer-allow-ebgp-vpn?          empty {feature-list:HAVE_VRF}?
| | | +--rw allow-as-number?              uint32
| | | +--rw capability-graceful-restart?   empty
| | | +--rw unsuppress-route-map-name?     string
| | +--ro state
| | | +--ro afi?                          ipi-bgp-types:bgp_afi_type_t
| | | +--ro safi?                          ipi-bgp-types:bgp_safi_type_t
| | | +--ro additional-paths-mode?         ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro route-server-client?           empty
| | | +--ro next-hop-self?                 empty
| | | +--ro activate?                      empty
| | | +--ro default-peer-route-map-name?    empty
| | | +--ro peer-route-map-orig-name?       string
| | | +--ro weight?                        uint16
| | | +--ro flowspec-validation-disable?    empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--ro peer-route-reflector?          empty
| | | +--ro peer-remove-private-as?        empty
| | | +--ro no-send-community?             empty
| | | +--ro no-send-community-type?         ipi-bgp-types:bgp_send_commu_type_t
| | | +--ro neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +--ro orf-prefix-capability?         ipi-bgp-types:bgp_orf_prefix_type_t
| | | +--ro peer-allow-ebgp-vpn?          empty {feature-list:HAVE_VRF}?
| | | +--ro allow-as-number?              uint32
| | | +--ro capability-graceful-restart?   empty
| | | +--ro unsuppress-route-map-name?     string
| | +--rw maximum-prefixes
| | | +--rw maximum-prefix* [prefix-count]
| | | | +--rw prefix-count -> ../config/prefix-count
| | | | +--rw config
| | | | | +--rw prefix-count?              uint32
| | | | | +--rw stop-update?              empty
| | | | | +--rw maximum-prefix-warning?    empty
| | | | | +--rw threshold-percentage?      uint8
| | | | | +--rw warning-only?             empty

```

```

| | | +--ro state
| | |   +--ro prefix-count?      uint32
| | |   +--ro stop-update?       empty
| | |   +--ro maximum-prefix-warning? empty
| | |   +--ro threshold-percentage? uint8
| | |   +--ro warning-only?      empty
| | +--rw distribute-list-filters
| |   | +--rw distribute-list-filter* [filter-direction]
| |   |   +--rw filter-direction -> ../config/filter-direction
| |   |   +--rw config
| |   |   | +--rw access-list-identifier string
| |   |   | +--rw filter-direction?    ipi-bgp-types:bgp_distribute_list_direction_t
| |   |   +--ro state
| |   |     +--ro access-list-identifier string
| |   |     +--ro filter-direction?    ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw as-list-filters
| |   | +--rw as-list-filter* [as-list-direction]
| |   |   +--rw as-list-direction -> ../config/as-list-direction
| |   |   +--rw config
| |   |   | +--rw as-access-list-identifier string
| |   |   | +--rw as-list-direction?    ipi-bgp-types:bgp_distribute_list_direction_t
| |   |   +--ro state
| |   |     +--ro as-access-list-identifier string
| |   |     +--ro as-list-direction?    ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw prefix-list-filters
| |   | +--rw prefix-list-filter* [prefix-filter-direction]
| |   |   +--rw prefix-filter-direction -> ../config/prefix-filter-direction
| |   |   +--rw config
| |   |   | +--rw prefix-list-name      string
| |   |   | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| |   |   +--ro state
| |   |     +--ro prefix-list-name      string
| |   |     +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw route-map-filters
| |   | +--rw route-map-filter* [route-map-direction]
| |   |   +--rw route-map-direction -> ../config/route-map-direction

```

```

| | | +--rw config
| | | | +--rw route-map-name      string
| | | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | |   +--ro route-map-name      string
| | | |   +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw aigp {feature-list:HAVE_BGP_AIGP}?
| | | | +--rw config
| | | | | +--rw admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw aigp-send-med? empty
| | | | | +--ro state
| | | | |   +--ro admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | |   +--ro aigp-send-med? empty
| | | | | +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw config!
| | | | | | +--rw send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?
| | | | | | +--rw point-of-insertion      ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | | | | +--rw enable-transitive?      empty {feature-list:HAVE_BGP_AIGP}?
| | | | | | +--ro state
| | | | | |   +--ro send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?
| | | | | |   +--ro point-of-insertion      ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | | | |   +--ro enable-transitive?      empty {feature-list:HAVE_BGP_AIGP}?
| | | +--ro dynamic-peers
| | |   +--ro dynamic-peer* [dynamic-peer-address]
| | |   +--ro dynamic-peer-address  -> ../state/dynamic-peer-address
| | |   +--ro state
| | |   | +--ro counters
| | |   | | +--ro keepalive-in-messages?      int32
| | |   | | +--ro keepalive-out-messages?      int32
| | |   | | +--ro open-messages-in?            int32
| | |   | | +--ro open-messages-out?           int32
| | |   | | +--ro as-path-count?               int32
| | |   | | +--ro as-path-extended-count?      int32
| | |   | | +--ro received-packet-count?       int32
| | |   | | +--ro packet-in-queue?             int32

```

				++ro packet-out-queue?	int32
				++ro sent-packet-count?	int32
				++ro refresh-received-packet-count?	int32
				++ro refresh-sent-packet-count?	int32
				++ro dynamic-peer-address?	ipi-bgp-types:bgp_ip_addr_t
				++ro max-paths-ibgp?	int16
				++ro configured-max-paths-ebgp?	int16
				++ro max-paths-ebgp?	int16
				++ro configured-max-paths-ibgp?	int16
				++ro max-paths-eibgp?	int16
				++ro configured-max-paths-eibgp?	int16
				++ro community-count?	int32
				++ro confederation-id-check?	boolean
				++ro peer-and-extended-asn-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro address-family-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro ipv6-next-hop-global?	inet:ipv6-address
				++ro ipv6-next-hop-local?	inet:ipv6-address
				++ro remote-port?	int32
				++ro remote-address?	ipi-bgp-types:bgp_hostname_t
				++ro local-host?	ipi-bgp-types:bgp_hostname_t
				++ro ipv4-next-hop?	inet:ipv4-address
				++ro local-port?	int32
				++ro default-information-originate?	boolean
				++ro inbound-path-policy?	boolean
				++ro outbound-path-policy?	boolean
				++ro default-originate-information-sent?	cml-data-types:cml_line_t
				++ro graceful-restart?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro address-family-dependent-capability?	boolean
				++ro peer-address-family-table-version?	int32
				++ro address-family-table-version?	int32
				++ro forward-status-preserve?	string
				++ro orf-type-prefix?	cml-data-types:cml_line_t
				++ro orf-type-prefix-send-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro orf-type-prefix-receive-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro orf-type-prefix-old?	cml-data-types:cml_line_t
				++ro orf-type-prefix-send-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t

			+--ro orf-type-prefix-receive-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t
			+--ro prefix-count?	int32
			+--ro send-prefix-count?	int32
			+--ro flag-shut-down?	ipi-bgp-types:bgp_peerflag_shutdown_t
			+--ro count?	int32
			+--ro notify-info?	boolean
			+--ro notify-last-reset-time?	string
			+--ro connection-type?	ipi-bgp-types:bgp_connection_type_t
			+--ro next-connection-timer?	int32
			+--ro connection-dropped-count?	int32
			+--ro graceful-restart-status?	string
			+--ro graceful-restart-time?	int32
			+--ro bgp-established-up-time?	string
			+--ro last-read-time?	string
			+--ro link-type?	ipi-bgp-types:bgp_link_type_t
			+--ro ebgp-hop-away-count?	int32
			+--ro router-id?	inet:ipv4-address
			+--ro advertisement-interval?	int32
			+--ro calculated-hold-time?	int32
			+--ro calculated-keepalive?	int32
			+--ro dynamic-capability?	cml-data-types:cml_line_t
			+--ro route-refresh-capability?	ipi-bgp-types:bgp_route_refresh_cap_type_t
			+--ro no-interface-binding?	boolean
			+--ro additional-path-receive-capability?	ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?				
			+--ro additional-path-send-capability?	ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?				
			+--ro capability-ipv4-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-label-unicast?	ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?				
			+--ro capability-ipv4-multicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-vpnv4-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-vpnv6-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-rtfilter-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-l2vpn-evpn?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-ipv6-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-ipv6-multicast?	ipi-bgp-types:bgp_capability_type_t

```

| | | +--ro capability-ipv6-label-unicast?      ipi-bgp-types:bgp_capability_type_t
| | | +--ro evpn-ad-route-count?                uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-mac-ip-route-count?            uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-inclusive-multicast-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-segment-route-count?           uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-ip-prefix-route-count?         uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro peer-adj-out-routes
| | |   +--ro peer-adj-out-route* [network-address]
| | |     +--ro network-address -> ../state/network-address
| | |     +--ro state
| | |       | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | |       +--ro next-hops
| | |         +--ro next-hop* [next-hop-address]
| | |           +--ro next-hop-address -> ../state/next-hop-address
| | |           +--ro state
| | |             +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| | |             +--ro peer-network-weight?   uint32
| | |             +--ro flap-time-reuse-list?   string
| | |             +--ro flap-record-duration?   string
| | |             +--ro damp-time-to-reuse?     string
| | |             +--ro bgp-med-value?          uint32
| | |             +--ro bgp-as-path-string*     cml-data-types:cml_line_t
| | |             +--ro bgp-as-path-4-byte-string* string
| | |             +--ro bgp-as-path-4-byte-origin? ipi-bgp-types:bgp_origin_t
| | |             +--ro ibgp-metric-route?      int32
| | |             +--ro aggregate-as-route?     int32
| | |             +--ro aggregator-address-route? ipi-bgp-types:bgp_hostname_t
| | |             +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| | |             +--ro originator-id-route?    ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-peer-address?     ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-local-preference? uint32
| | |             +--ro route-prefix-label?     uint32
| | |             +--ro route-community-string? cml-data-types:cml_line_t
| | |             +--ro cluster-list-route*     ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-penalty?          int32
| | |             +--ro route-flap-count?       int32

```

```

| |                +--ro last-update-route?      yang:date-and-time
| |                +--ro reflector-client-route?   boolean
| |                +--ro route-dampening-active?   boolean
| |                +--ro history-route?            boolean
| |                +--ro nexthop-valid-route?      boolean
| |                +--ro med-flag-type-route?      boolean
| |                +--ro valid-route?              boolean
| |                +--ro stale-route?              boolean
| |                +--ro route-type?              ipi-bgp-types:bgp_ri_type_t
| |                +--ro ecmp-multi-candidate-route? boolean
| |                +--ro multi-installed-route?    boolean
| |                +--ro route-synchronized-flag-route? boolean
| |                +--ro atomic-aggregate-route?   boolean
| |                +--ro selected-route?          boolean
| |                +--ro bgp-tx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| |                +--ro bgp-rx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| |                +--ro ipv4-multicast-capability? string
| |                +--ro vpngv4-unicast-capability? string
| |                +--ro rtfiler-unicast-capability? string
| |                +--ro l2vpn-evpn-capability?    string
| |                +--ro ipv6-unicast-capability?  string
| |                +--ro ipv6-multicast-capability? string
| |                +--ro ipv6-label-unicast-capability? string
| |                +--ro in-label?                uint32 {feature-list:HAVE_BGP_LU}?
| |                +--ro out-label?                uint32 {feature-list:HAVE_BGP_LU}?
| |                +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpk_i_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|   +--rw peers
|   | +--rw peer* [peer-address]
|   |   +--rw peer-address    -> ../config/peer-address
|   |   +--rw config
|   |   | +--rw peer-address?    ipi-bgp-types:bgp_ip_addr_t
|   |   | +--rw peer-as?        ipi-bgp-types:bgp_as_type_t
|   |   | +--rw graceful-shut?   empty
|   |   | +--rw enable-peer-bfd? empty {feature-list:HAVE_BFD}?
|   |   | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
|   |   | +--rw graceful-shutdown-timer? uint32

```

```

| | | +--rw peer-restart-time?          uint32 {feature-list:HAVE_RESTART}?
| | | +--rw peer-description?          cml-data-types:cml_line_t
| | | +--rw peer-connect-interval?      uint32
| | | +--rw peer-as-origin-interval?    uint32
| | | +--rw min-route-advertisement-interval? uint32
| | | +--rw enable-dynamic-capability?   empty
| | | +--rw collide-established?         empty
| | | +--rw source-identifier?          string
| | | +--rw enforce-multi-hop?          empty
| | | +--rw neighbor-override-capability? empty
| | | +--rw neighbor-strict-capability-match? empty
| | | +--rw disallow-infinite-hold-time? empty
| | | +--rw neighbor-passive?          empty
| | | +--rw peer-shutdown?             empty
| | | +--rw peer-shutdown-description?   cml-data-types:cml_line_t
| | | +--rw peer-port?                 uint16
| | | +--rw bgp-version?               uint8
| | | +--rw interface-name?            string
| | | +--rw mapped-peer-group-tag?      string
| | | +--rw enable-ext-opt-param-len?   empty
| | | +--rw tcp-adjust-mss?            uint16
| | +--ro state
| | | +--ro counters
| | | | +--ro notification-in?    int32
| | | | +--ro notification-out?   int32
| | | | +--ro update-message-in?  int32
| | | | +--ro update-message-out? int32
| | | +--ro peer-address?         ipi-bgp-types:bgp_ip_addr_t
| | | +--ro peer-as?              ipi-bgp-types:bgp_as_type_t
| | | +--ro graceful-shut?        empty
| | | +--ro enable-peer-bfd?      empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| | | +--ro graceful-shutdown-timer? uint32
| | | +--ro peer-restart-time?    uint32 {feature-list:HAVE_RESTART}?
| | | +--ro peer-description?     cml-data-types:cml_line_t
| | | +--ro peer-connect-interval? uint32

```

```

| | | +--ro peer-as-origin-interval?      uint32
| | | +--ro min-route-advertisement-interval?  uint32
| | | +--ro enable-dynamic-capability?      empty
| | | +--ro collide-established?            empty
| | | +--ro source-identifier?              string
| | | +--ro enforce-multi-hop?              empty
| | | +--ro neighbor-override-capability?   empty
| | | +--ro neighbor-strict-capability-match? empty
| | | +--ro disallow-infinite-hold-time?    empty
| | | +--ro neighbor-passive?               empty
| | | +--ro peer-shutdown?                  empty
| | | +--ro peer-shutdown-description?      cml-data-types:cml_line_t
| | | +--ro peer-port?                      uint16
| | | +--ro bgp-version?                    uint8
| | | +--ro interface-name?                 string
| | | +--ro mapped-peer-group-tag?          string
| | | +--ro enable-ext-opt-param-len?       empty
| | | +--ro tcp-adjust-mss?                 uint16
| | | +--ro peer-type?                      ipi-bgp-types:bgp_peer_type_t
| | | +--ro dynamically-configured?         boolean
| | | +--ro connection-established-count?   int32
| | | +--ro error-notify-sent?              boolean
| | | +--ro notify-code-string?              cml-data-types:cml_line_t
| | | +--ro bgp-peer-state?                 ipi-bgp-types:bgp_peer_status_t
| | | +--ro local-ip?                       ipi-bgp-types:bgp_ip_addr_t
| | | +--ro local-as?                       uint32
| | +--rw timers
| | | +--rw config!
| | | | +--rw keep-alive  uint16
| | | | +--rw hold-time   uint16
| | | | +--ro state
| | | |   +--ro keep-alive  uint16
| | | |   +--ro hold-time   uint16
| | +--rw ebgp-multihop
| | | +--rw config!
| | | | +--rw maximum-hop-count?  uint8

```

```

| | | | +--rw enabled          empty
| | | | +--ro state
| | | |   +--ro maximum-hop-count? uint8
| | | |   +--ro enabled          empty
| | | +--rw local-as
| | | | +--rw local-as-list* [peer-local-as]
| | | |   +--rw peer-local-as  -> ../config/peer-local-as
| | | |   +--rw config
| | | | | +--rw peer-local-as?    uint32
| | | | | +--rw no-prepend-local-as? empty
| | | | | +--rw replace-local-as? empty
| | | | +--ro state
| | | |   +--ro peer-local-as?    uint32
| | | |   +--ro no-prepend-local-as? empty
| | | |   +--ro replace-local-as? empty
| | +--rw bgp-passwords
| | | +--rw bgp-password* [password]
| | | | +--rw password  -> ../config/password
| | | | +--rw config
| | | | | +--rw password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | +--ro state
| | | |   +--ro password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | +--rw address-families
| | | +--rw address-family* [afi safi]
| | | | +--rw afi          -> ../config/afi
| | | | +--rw safi          -> ../config/safi
| | | | +--ro peer-adj-out-route* [network-address]
| | | | | +--ro network-address  -> ../state/network-address
| | | | | +--ro next-hop* [next-hop-address]
| | | | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | | | +--ro state
| | | | | | | +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| | | | | | | +--ro peer-network-weight?    uint32
| | | | | | | +--ro flap-time-reuse-list?    string

```

				+--ro flap-record-duration?	string
				+--ro damp-time-to-reuse?	string
				+--ro bgp-med-value?	uint32
				+--ro bgp-as-path-string*	cml-data-types:cml_line_t
				+--ro bgp-as-path-4-byte-string*	string
				+--ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
				+--ro ibgp-metric-route?	int32
				+--ro aggregate-as-route?	int32
				+--ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
				+--ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
				+--ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
				+--ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
				+--ro route-local-preference?	uint32
				+--ro route-prefix-label?	uint32
				+--ro route-community-string?	cml-data-types:cml_line_t
				+--ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
				+--ro route-penalty?	int32
				+--ro route-flap-count?	int32
				+--ro last-update-route?	yang:date-and-time
				+--ro reflector-client-route?	boolean
				+--ro route-dampening-active?	boolean
				+--ro history-route?	boolean
				+--ro nexthop-valid-route?	boolean
				+--ro med-flag-type-route?	boolean
				+--ro valid-route?	boolean
				+--ro stale-route?	boolean
				+--ro route-type?	ipi-bgp-types:bgp_ri_type_t
				+--ro ecmp-multi-candidate-route?	boolean
				+--ro multi-installed-route?	boolean
				+--ro route-synchronized-flag-route?	boolean
				+--ro atomic-aggregate-route?	boolean
				+--ro selected-route?	boolean
				+--ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro ipv4-multicast-capability?	string
				+--ro vpnv4-unicast-capability?	string

```

| | | | | +--ro rtfiler-unicast-capability? string
| | | | | +--ro l2vpn-evpn-capability?      string
| | | | | +--ro ipv6-unicast-capability?    string
| | | | | +--ro ipv6-multicast-capability?  string
| | | | | +--ro ipv6-label-unicast-capability? string
| | | | | +--ro in-label?                   uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro out-label?                  uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | | +--ro state
| | | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | | +--ro peer-adj-in-route* [network-address]
| | | | | +--ro network-address -> ../state/network-address
| | | | | +--ro next-hop* [next-hop-address]
| | | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | | +--ro state
| | | | | +--ro next-hop-address?           ipi-bgp-types:bgp_hostname_t
| | | | | +--ro peer-network-weight?       uint32
| | | | | +--ro flap-time-reuse-list?      string
| | | | | +--ro flap-record-duration?      string
| | | | | +--ro damp-time-to-reuse?        string
| | | | | +--ro bgp-med-value?             uint32
| | | | | +--ro bgp-as-path-string*        cml-data-types:cml_line_t
| | | | | +--ro bgp-as-path-4-byte-string*  string
| | | | | +--ro bgp-as-path-4-byte-origin?  ipi-bgp-types:bgp_origin_t
| | | | | +--ro ibgp-metric-route?         int32
| | | | | +--ro aggregate-as-route?       int32
| | | | | +--ro aggregator-address-route?  ipi-bgp-types:bgp_hostname_t
| | | | | +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| | | | | +--ro originator-id-route?       ipi-bgp-types:bgp_hostname_t
| | | | | +--ro route-peer-address?        ipi-bgp-types:bgp_hostname_t
| | | | | +--ro route-local-preference?    uint32
| | | | | +--ro route-prefix-label?       uint32
| | | | | +--ro route-community-string?    cml-data-types:cml_line_t
| | | | | +--ro cluster-list-route*        ipi-bgp-types:bgp_hostname_t
| | | | | +--ro route-penalty?            int32
| | | | | +--ro route-flap-count?         int32

```

```

| | | | +--ro last-update-route?      yang:date-and-time
| | | | +--ro reflector-client-route?  boolean
| | | | +--ro route-dampening-active?  boolean
| | | | +--ro history-route?          boolean
| | | | +--ro nexthop-valid-route?     boolean
| | | | +--ro med-flag-type-route?     boolean
| | | | +--ro valid-route?            boolean
| | | | +--ro stale-route?            boolean
| | | | +--ro route-type?             ipi-bgp-types:bgp_ri_type_t
| | | | +--ro ecmp-multi-candidate-route?  boolean
| | | | +--ro multi-installed-route?    boolean
| | | | +--ro route-synchronized-flag-route?  boolean
| | | | +--ro atomic-aggregate-route?    boolean
| | | | +--ro selected-route?          boolean
| | | | +--ro bgp-tx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro bgp-rx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro ipv4-multicast-capability?  string
| | | | +--ro vpv4-unicast-capability?   string
| | | | +--ro rtfiler-unicast-capability? string
| | | | +--ro l2vpn-evpn-capability?     string
| | | | +--ro ipv6-unicast-capability?   string
| | | | +--ro ipv6-multicast-capability?  string
| | | | +--ro ipv6-label-unicast-capability? string
| | | | +--ro in-label?                 uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro out-label?                uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | +--ro state
| | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | +--rw config
| | | | +--rw afi?                    ipi-bgp-types:bgp_afi_type_t
| | | | +--rw safi?                   ipi-bgp-types:bgp_safi_type_t
| | | | +--rw additional-paths-mode?   ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw route-server-client?        empty

```

```

| | | | +--rw next-hop-self?          empty
| | | | +--rw activate?              empty
| | | | +--rw de-activate?           empty
| | | | +--rw default-peer-route-map-name?  empty
| | | | +--rw peer-route-map-orig-name?    string
| | | | +--rw soft-reconfig?           ipi-bgp-types:bgp_update_clear_t
| | | | +--rw weight?                 uint16
| | | | +--rw flowspec-validation-disable?  empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--rw peer-route-reflector?       empty
| | | | +--rw peer-remove-private-as?     empty
| | | | +--rw no-send-community?         empty
| | | | +--rw no-send-community-type?     ipi-bgp-types:bgp_send_commu_type_t
| | | | +--rw neighbor-attribute-unchanged? ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--rw orf-prefix-capability?     ipi-bgp-types:bgp_orf_prefix_type_t
| | | | +--rw peer-allow-ebgp-vpn?       empty {feature-list:HAVE_VRF}?
| | | | +--rw allow-as-number?           uint32
| | | | +--rw capability-graceful-restart? empty
| | | | +--rw extended-nexthop-encode?   empty
| | | | +--rw mapped-peer-group-tag-af?   string
| | | | +--rw unsuppress-route-map-name?  string
| | | | +--ro state
| | | | +--ro counters
| | | | | +--ro keepalive-in-messages?    int32
| | | | | +--ro keepalive-out-messages?   int32
| | | | | +--ro open-messages-in?        int32
| | | | | +--ro open-messages-out?       int32
| | | | | +--ro as-path-count?           int32
| | | | | +--ro as-path-extended-count?   int32
| | | | | +--ro received-packet-count?    int32
| | | | | +--ro packet-in-queue?         int32
| | | | | +--ro packet-out-queue?        int32
| | | | | +--ro sent-packet-count?       int32
| | | | | +--ro refresh-received-packet-count? int32
| | | | | +--ro refresh-sent-packet-count? int32
| | | | +--ro afi?                       ipi-bgp-types:bgp_afi_type_t
| | | | +--ro safi?                       ipi-bgp-types:bgp_safi_type_t

```

```

| | | | +--ro additional-paths-mode?          ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-select-all?      empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro route-server-client?              empty
| | | | +--ro next-hop-self?                    empty
| | | | +--ro activate?                        empty
| | | | +--ro de-activate?                     empty
| | | | +--ro default-peer-route-map-name?      empty
| | | | +--ro peer-route-map-orig-name?         string
| | | | +--ro soft-reconfig?                    ipi-bgp-types:bgp_update_clear_t
| | | | +--ro weight?                          uint16
| | | | +--ro flowspec-validation-disable?      empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--ro peer-route-reflector?            empty
| | | | +--ro peer-remove-private-as?          empty
| | | | +--ro no-send-community?               empty
| | | | +--ro no-send-community-type?          ipi-bgp-types:bgp_send_commu_type_t
| | | | +--ro neighbor-attribute-unchanged?    ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--ro orf-prefix-capability?           ipi-bgp-types:bgp_orf_prefix_type_t
| | | | +--ro peer-allow-ebgp-vpn?             empty {feature-list:HAVE_VRF}?
| | | | +--ro allow-as-number?                 uint32
| | | | +--ro capability-graceful-restart?     empty
| | | | +--ro extended-nexthop-encode?         empty
| | | | +--ro mapped-peer-group-tag-af?        string
| | | | +--ro unsuppress-route-map-name?       string
| | | | +--ro dynamic-peer-address?            ipi-bgp-types:bgp_ip_addr_t
| | | | +--ro max-paths-ibgp?                   int16
| | | | +--ro configured-max-paths-ebgp?       int16
| | | | +--ro max-paths-ebgp?                  int16
| | | | +--ro configured-max-paths-ibgp?       int16
| | | | +--ro max-paths-eibgp?                 int16
| | | | +--ro configured-max-paths-eibgp?      int16
| | | | +--ro community-count?                 int32
| | | | +--ro confederation-id-check?          boolean
| | | | +--ro peer-and-extended-asn-capability? ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro address-family-capability?       ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro ipv6-next-hop-global?            inet:ipv6-address

```

				+--ro ipv6-next-hop-local?	inet:ipv6-address
				+--ro remote-port?	int32
				+--ro remote-address?	ipi-bgp-types:bgp_hostname_t
				+--ro local-host?	ipi-bgp-types:bgp_hostname_t
				+--ro ipv4-next-hop?	inet:ipv4-address
				+--ro local-port?	int32
				+--ro default-information-originate?	boolean
				+--ro inbound-path-policy?	boolean
				+--ro outbound-path-policy?	boolean
				+--ro default-originate-information-sent?	cml-data-types:cml_line_t
				+--ro graceful-restart?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro address-family-dependent-capability?	boolean
				+--ro peer-address-family-table-version?	int32
				+--ro address-family-table-version?	int32
				+--ro forward-status-preserve?	string
				+--ro orf-type-prefix?	cml-data-types:cml_line_t
				+--ro orf-type-prefix-send-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-receive-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-old?	cml-data-types:cml_line_t
				+--ro orf-type-prefix-send-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-receive-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro prefix-count?	int32
				+--ro send-prefix-count?	int32
				+--ro flag-shut-down?	ipi-bgp-types:bgp_peerflag_shutdown_t
				+--ro count?	int32
				+--ro notify-info?	boolean
				+--ro notify-last-reset-time?	string
				+--ro connection-type?	ipi-bgp-types:bgp_connection_type_t
				+--ro next-connection-timer?	int32
				+--ro connection-dropped-count?	int32
				+--ro graceful-restart-status?	string
				+--ro graceful-restart-time?	int32
				+--ro bgp-established-up-time?	string
				+--ro last-read-time?	string
				+--ro link-type?	ipi-bgp-types:bgp_link_type_t
				+--ro ebgp-hop-away-count?	int32

```

| | | | +--ro router-id?                inet:ipv4-address
| | | | +--ro advertisement-interval?    int32
| | | | +--ro calculated-hold-time?      int32
| | | | +--ro calculated-keepalive?      int32
| | | | +--ro dynamic-capability?        cml-data-types:cml_line_t
| | | | +--ro route-refresh-capability?  ipi-bgp-types:bgp_route_refresh_cap_type_t
| | | | +--ro no-interface-binding?      boolean
| | | | +--ro additional-path-receive-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-send-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro capability-ipv4-unicast?    ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-label-unicast?   ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
| | | | +--ro capability-ipv4-multicast?  ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv4-unicast?   ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv6-unicast?   ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-rtfilter-unicast? ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-l2vpn-evpn?      ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-unicast?    ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-multicast?  ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-label-unicast? ipi-bgp-types:bgp_capability_type_t
| | | | +--ro evpn-ad-route-count?        uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-mac-ip-route-count?    uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-inclusive-multicast-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-segment-route-count?   uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-ip-prefix-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--rw maximum-prefixes
| | | | +--rw maximum-prefix* [prefix-count]
| | | | +--rw prefix-count -> ../config/prefix-count
| | | | +--rw config
| | | | | +--rw prefix-count?            uint32
| | | | | +--rw stop-update?            empty
| | | | | +--rw maximum-prefix-warning? empty
| | | | | +--rw threshold-percentage?   uint8
| | | | | +--rw warning-only?           empty
| | | | +--ro state

```

```
| | | | +--ro prefix-count?      uint32
| | | | +--ro stop-update?       empty
| | | | +--ro maximum-prefix-warning? empty
| | | | +--ro threshold-percentage? uint8
| | | | +--ro warning-only?      empty
| | | +--rw distribute-list-filters
| | | | +--rw distribute-list-filter* [filter-direction]
| | | | +--rw filter-direction -> ../config/filter-direction
| | | | +--rw config
| | | | | +--rw access-list-identifier string
| | | | | +--rw filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro access-list-identifier string
| | | | +--ro filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw as-list-filters
| | | | +--rw as-list-filter* [as-list-direction]
| | | | +--rw as-list-direction -> ../config/as-list-direction
| | | | +--rw config
| | | | | +--rw as-access-list-identifier string
| | | | | +--rw as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro as-access-list-identifier string
| | | | +--ro as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw prefix-list-filters
| | | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | | +--rw prefix-filter-direction -> ../config/prefix-filter-direction
| | | | +--rw config
| | | | | +--rw prefix-list-name string
| | | | | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro prefix-list-name string
| | | | +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw route-map-filters
| | | | +--rw route-map-filter* [route-map-direction]
| | | | +--rw route-map-direction -> ../config/route-map-direction
| | | | +--rw config
```

```

| | | | | +--rw route-map-name      string
| | | | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | +--ro state
| | | | |   +--ro route-map-name      string
| | | | |   +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro outbound-route-filter
| | | | | +--ro state
| | | | |   +--ro orf-prefix-string?  boolean
| | | | |   +--ro orf-prefix-send?   string
| | | | |   +--ro orf-prefix-count?  string
| | | | |   +--ro orf-wait-refresh?  boolean
| | | | +--ro peer-prefix
| | | | | +--ro state
| | | | |   +--ro entry-sequence?    int32
| | | | |   +--ro entry-type?       ipi-bgp-types:bgp_prefix_entry_type_t
| | | | |   +--ro entry-max-length?  int32
| | | | |   +--ro entry-min-length?  int32
| | | | |   +--ro prefix-length?    int32
| | | | +--ro peer-index
| | | | | +--ro state
| | | | |   +--ro peer-index?  int32
| | | | |   +--ro offset?    int32
| | | | |   +--ro mask?     string
| | | | +--rw aigp {feature-list:HAVE_BGP_AIGP}?
| | | |   +--rw config
| | | | | +--rw admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw aigp-send-med?  empty
| | | | | +--ro state
| | | | |   +--ro admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | |   +--ro aigp-send-med?  empty
| | | | +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
| | | |   +--rw config!
| | | | | +--rw send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw point-of-insertion      ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | | |   +--rw enable-transitive?    empty {feature-list:HAVE_BGP_AIGP}?
| | | | | +--ro state

```

```

| | |      +--ro send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?
| | |      +--ro point-of-insertion      ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | |      +--ro enable-transitive?      empty {feature-list:HAVE_BGP_AIGP}?
| | +--rw egress-engineering
| |   +--rw config
| |     | +--rw enable-peer-node?  empty
| |     | +--ro state
| |     | | +--ro enable-peer-node?  empty
| |     | | +--ro in-label?          uint32
| |     | | +--ro nexthop-ip-address? inet:ipv4-address
| |     | | +--ro out-interface?     string
| |     | +--rw peer-set
| |     | | +--rw config
| |     | | | +--rw set-name?  string
| |     | | | +--ro state
| |     | |   +--ro set-name?      string
| |     | |   +--ro in-label?      uint32
| |     | |   +--ro nexthop-ip-address? inet:ipv4-address
| |     | |   +--ro out-interface?  string
| |     | +--rw backup
| |     | | +--rw peer-node
| |     | | | +--rw config
| |     | | | | +--rw address?  inet:ipv4-address
| |     | | | | +--ro state
| |     | | | | +--ro address?   inet:ipv4-address
| |     | | | | +--ro nexthop-ip-address? inet:ipv4-address
| |     | | | | +--ro out-interface?  string
| |     | | +--rw adjacency
| |     | |   +--rw config!
| |     | | | +--rw adjacent-address  inet:ipv4-address
| |     | | | +--rw nexthop-address  inet:ipv4-address
| |     | |   +--ro state
| |     | |   +--ro adjacent-address  inet:ipv4-address
| |     | |   +--ro nexthop-address   inet:ipv4-address
| |     | |   +--ro nexthop-ip-address? inet:ipv4-address
| |     | |   +--ro out-interface?    string

```

```

| |   +--rw peer-adjacencies
| |       +--rw peer-adjacency* [hop-address]
| |           +--rw hop-address   -> ../config/hop-address
| |           +--rw config
| |               | +--rw hop-address?  inet:ipv4-address
| |               +--ro state
| |                   | +--ro hop-address?      inet:ipv4-address
| |                   | +--ro in-label?         uint32
| |                   | +--ro nexthop-ip-address? inet:ipv4-address
| |                   | +--ro out-interface?     string
| |               +--rw backup
| |                   +--rw peer-node
| |                       | +--rw config
| |                           | | +--rw address?  inet:ipv4-address
| |                           | | +--ro state
| |                           | |   +--ro address?      inet:ipv4-address
| |                           | |   +--ro nexthop-ip-address? inet:ipv4-address
| |                           | |   +--ro out-interface?  string
| |                       +--rw adjacency
| |                           +--rw config!
| |                               | +--rw adjacent-address  inet:ipv4-address
| |                               | +--rw nexthop-address   inet:ipv4-address
| |                               +--ro state
| |                                   +--ro adjacent-address  inet:ipv4-address
| |                                   +--ro nexthop-address   inet:ipv4-address
| |                                   +--ro nexthop-ip-address? inet:ipv4-address
| |                                   +--ro out-interface?     string
| +--rw address-family-vrfs
| | +--rw address-family-vrf* [afi safi vrf-name]
| |     +--rw afi                -> ../config/afi
| |     +--rw safi                -> ../config/safi
| |     +--rw vrf-name            -> ../config/vrf-name
| |     +--rw config
| |         | +--rw afi?                ipi-bgp-types:bgp_vrf_afi_type_t
| |         | +--rw safi?               ipi-bgp-types:bgp_vrf_safi_type_t
| |         | +--rw vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
| |         config/vrf-name

```

```

| | | +--rw multipath-relax?          empty
| | | +--rw graceful-shutdown?        empty
| | | +--rw graceful-shutdown-capable? empty
| | | +--rw graceful-shutdown-local-preference? uint32
| | | +--rw additional-paths-mode?      ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw enable-pic?                 empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--rw enable-auto-summary?        empty
| | | +--rw enable-additional-path-pic?  empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--rw enable-network-igp-sync?     empty
| | | +--rw enable-igp-sync?             empty
| | | +--rw enable-bgp-implicit-null?    empty
| | +--ro state
| | | +--ro afi?                        ipi-bgp-types:bgp_vrf_afi_type_t
| | | +--ro safi?                       ipi-bgp-types:bgp_vrf_safi_type_t
| | | +--ro vrf-name?                   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
| | | +--ro multipath-relax?            empty
| | | +--ro graceful-shutdown?          empty
| | | +--ro graceful-shutdown-capable?   empty
| | | +--ro graceful-shutdown-local-preference? uint32
| | | +--ro additional-paths-mode?      ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro enable-pic?                 empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-auto-summary?        empty
| | | +--ro enable-additional-path-pic?  empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-network-igp-sync?     empty
| | | +--ro enable-igp-sync?             empty
| | | +--ro enable-bgp-implicit-null?    empty
| | +--rw distances
| | | +--rw distance* [ebgp ibgp local]
| | |   +--rw ebgp   -> ../config/ebgp
| | |   +--rw ibgp   -> ../config/ibgp

```

```

| | | +--rw local    -> ../config/local
| | | +--rw config
| | | | +--rw ebgp?   uint8
| | | | +--rw ibgp?   uint8
| | | | +--rw local?  uint8
| | | +--ro state
| | |   +--ro ebgp?   uint8
| | |   +--ro ibgp?   uint8
| | |   +--ro local?  uint8
| | +--rw aggregate-address-lists
| | | +--rw aggregate-address-list* [aggregate-address]
| | |   +--rw aggregate-address    -> ../config/aggregate-address
| | |   +--rw config
| | | | +--rw aggregate-address?  cml-data-types:cml_ip_prefix_t
| | | | +--rw aggregate-type?     ipi-bgp-types:bgp_aggregate_type_t
| | | +--ro state
| | |   +--ro aggregate-address?  cml-data-types:cml_ip_prefix_t
| | |   +--ro aggregate-type?     ipi-bgp-types:bgp_aggregate_type_t
| | +--rw maximum-paths
| | | +--rw config
| | | | +--rw ebgp-max-path?  int32
| | | | +--rw ibgp-max-path?  int32
| | | | +--rw eibgp-max-path? int32
| | | +--ro state
| | |   +--ro ebgp-max-path?  int32
| | |   +--ro ibgp-max-path?  int32
| | |   +--ro eibgp-max-path? int32
| | +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--rw config!
| | | | +--rw map-name          string {feature-list:HAVE_BGP_TABLE_MAP}?
| | | | +--rw table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--ro state
| | |   +--ro map-name          string {feature-list:HAVE_BGP_TABLE_MAP}?
| | |   +--ro table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | +--rw route-flap-dampenings
| | | +--rw route-flap-dampening* [enable-dampening]

```

```

| | | +--rw enable-dampening -> ../config/enable-dampening
| | | +--rw config
| | | | +--rw enable-dampening? ipi-bgp-types:bgp_dampening_t
| | | | +--rw reach-half-life? uint32
| | | | +--rw reuse-penalty? uint32
| | | | +--rw suppress-penalty? uint32
| | | | +--rw max-suppress-time? uint32
| | | | +--rw unreach-half-life? uint32
| | | | +--rw dampening-rmap-name? string
| | | +--ro state
| | | | +--ro enable-dampening? ipi-bgp-types:bgp_dampening_t
| | | | +--ro reach-half-life? uint32
| | | | +--ro reuse-penalty? uint32
| | | | +--ro suppress-penalty? uint32
| | | | +--ro max-suppress-time? uint32
| | | | +--ro unreach-half-life? uint32
| | | | +--ro dampening-rmap-name? string
| | +--rw route-redistribute-lists
| | | +--rw route-redistribute-list* [protocol-type]
| | | +--rw protocol-type -> ../config/protocol-type
| | | +--rw config
| | | | +--rw protocol-type? ipi-bgp-types:bgp_redistribute_type_t
| | | | +--rw redist-route-map-name string
| | | +--ro state
| | | | +--ro protocol-type? ipi-bgp-types:bgp_redistribute_type_t
| | | | +--ro redist-route-map-name string
| | +--rw bgp-srv6 {feature-list:HAVE_SRV6}?
| | | +--rw config!
| | | | +--rw bgpSRv6enable empty
| | | +--ro state
| | | | +--ro bgpSRv6enable empty
| | | +--rw sid-alloc-mode
| | | +--rw config
| | | | +--rw sid-alloc-type? ipi-bgp-types:bgp_sid_alloc_type_t
| | | +--ro state
| | | | +--ro sid-alloc-type? ipi-bgp-types:bgp_sid_alloc_type_t

```

```

| | +--rw bgp-redistribute-ospfs
| | | +--rw bgp-redistribute-ospf* [ospf-instance-number]
| | |   +--rw ospf-instance-number -> ../config/ospf-instance-number
| | |   +--rw config
| | |     | +--rw ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| | |     | +--rw redistribute-ospf-route-map? string
| | |     +--ro state
| | |       +--ro ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| | |       +--ro redistribute-ospf-route-map? string
| | +--rw vrf-peers
| | | +--rw vrf-peer* [peer-address]
| | |   +--rw peer-address -> ../config/peer-address
| | |   +--ro peer-adj-out-route* [network-address]
| | |     | +--ro network-address -> ../state/network-address
| | |     | +--ro next-hop* [next-hop-address]
| | |     | | +--ro next-hop-address -> ../state/next-hop-address
| | |     | | +--ro state
| | |     | |   +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| | |     | |   +--ro peer-network-weight?    uint32
| | |     | |   +--ro flap-time-reuse-list?    string
| | |     | |   +--ro flap-record-duration?    string
| | |     | |   +--ro damp-time-to-reuse?      string
| | |     | |   +--ro bgp-med-value?          uint32
| | |     | |   +--ro bgp-as-path-string*      cml-data-types:cml_line_t
| | |     | |   +--ro bgp-as-path-4-byte-string* string
| | |     | |   +--ro bgp-as-path-4-byte-origin? ipi-bgp-types:bgp_origin_t
| | |     | |   +--ro ibgp-metric-route?      int32
| | |     | |   +--ro aggregate-as-route?     int32
| | |     | |   +--ro aggregator-address-route? ipi-bgp-types:bgp_hostname_t
| | |     | |   +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| | |     | |   +--ro originator-id-route?    ipi-bgp-types:bgp_hostname_t
| | |     | |   +--ro route-peer-address?     ipi-bgp-types:bgp_hostname_t
| | |     | |   +--ro route-local-preference? uint32
| | |     | |   +--ro route-prefix-label?     uint32
| | |     | |   +--ro route-community-string? cml-data-types:cml_line_t
| | |     | |   +--ro cluster-list-route*     ipi-bgp-types:bgp_hostname_t

```

```

| | | | | +--ro route-penalty?          int32
| | | | | +--ro route-flap-count?       int32
| | | | | +--ro last-update-route?      yang:date-and-time
| | | | | +--ro reflector-client-route?  boolean
| | | | | +--ro route-dampening-active?  boolean
| | | | | +--ro history-route?          boolean
| | | | | +--ro nexthop-valid-route?     boolean
| | | | | +--ro med-flag-type-route?     boolean
| | | | | +--ro valid-route?            boolean
| | | | | +--ro stale-route?            boolean
| | | | | +--ro route-type?             ipi-bgp-types:bgp_ri_type_t
| | | | | +--ro ecmp-multi-candidate-route?  boolean
| | | | | +--ro multi-installed-route?    boolean
| | | | | +--ro route-synchronized-flag-route?  boolean
| | | | | +--ro atomic-aggregate-route?    boolean
| | | | | +--ro selected-route?          boolean
| | | | | +--ro bgp-tx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--ro bgp-rx-path-id?          int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--ro ipv4-multicast-capability?  string
| | | | | +--ro vpnv4-unicast-capability?  string
| | | | | +--ro rtfilter-unicast-capability?  string
| | | | | +--ro l2vpn-evpn-capability?     string
| | | | | +--ro ipv6-unicast-capability?   string
| | | | | +--ro ipv6-multicast-capability?  string
| | | | | +--ro ipv6-label-unicast-capability?  string
| | | | | +--ro in-label?                 uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro out-label?                uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | | +--ro state
| | | | |   +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | |   +--ro peer-adj-in-route* [network-address]
| | | | |   +--ro network-address -> ../state/network-address
| | | | |   +--ro next-hop* [next-hop-address]
| | | | |   +--ro next-hop-address -> ../state/next-hop-address
| | | | |   +--ro state
| | | | |   +--ro next-hop-address? ipi-bgp-types:bgp_hostname_t

```

				+--ro peer-network-weight?	uint32
				+--ro flap-time-reuse-list?	string
				+--ro flap-record-duration?	string
				+--ro damp-time-to-reuse?	string
				+--ro bgp-med-value?	uint32
				+--ro bgp-as-path-string*	cml-data-types:cml_line_t
				+--ro bgp-as-path-4-byte-string*	string
				+--ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
				+--ro ibgp-metric-route?	int32
				+--ro aggregate-as-route?	int32
				+--ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
				+--ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
				+--ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
				+--ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
				+--ro route-local-preference?	uint32
				+--ro route-prefix-label?	uint32
				+--ro route-community-string?	cml-data-types:cml_line_t
				+--ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
				+--ro route-penalty?	int32
				+--ro route-flap-count?	int32
				+--ro last-update-route?	yang:date-and-time
				+--ro reflector-client-route?	boolean
				+--ro route-dampening-active?	boolean
				+--ro history-route?	boolean
				+--ro nexthop-valid-route?	boolean
				+--ro med-flag-type-route?	boolean
				+--ro valid-route?	boolean
				+--ro stale-route?	boolean
				+--ro route-type?	ipi-bgp-types:bgp_ri_type_t
				+--ro ecmp-multi-candidate-route?	boolean
				+--ro multi-installed-route?	boolean
				+--ro route-synchronized-flag-route?	boolean
				+--ro atomic-aggregate-route?	boolean
				+--ro selected-route?	boolean
				+--ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?

```

| | | | | +--ro ipv4-multicast-capability?    string
| | | | | +--ro vpnv4-unicast-capability?     string
| | | | | +--ro rtfilter-unicast-capability?  string
| | | | | +--ro l2vpn-evpn-capability?        string
| | | | | +--ro ipv6-unicast-capability?      string
| | | | | +--ro ipv6-multicast-capability?    string
| | | | | +--ro ipv6-label-unicast-capability? string
| | | | | +--ro in-label?                     uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro out-label?                    uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro as-origin-validation-state?   ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | | +--ro state
| | | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | +--rw config
| | | | | +--rw peer-address?                  inet:ip-address
| | | | | +--rw peer-as?                      uint32
| | | | | +--rw source-identifier?             string
| | | | | +--rw bgp-version?                  uint8
| | | | | +--rw peer-connection-interval?     uint32
| | | | | +--rw enforce-multihop?             empty
| | | | | +--rw peer-shutdown?                empty
| | | | | +--rw peer-shutdown-description?    cml-data-types:cml_line_t
| | | | | +--rw neighbor-passive?             empty
| | | | | +--rw enable-dynamic-capability?    empty
| | | | | +--rw min-route-advertisement-interval? uint32
| | | | | +--rw peer-as-origin-interval?      uint32
| | | | | +--rw neighbor-as-override?         empty
| | | | | +--rw peer-interface-name?          string {feature-list:HAVE_VRF}?
| | | | | +--rw peer-description?             cml-data-types:cml_line_t
| | | | | +--rw peer-restart-time?            uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
| | | | | +--rw graceful-shut?                empty
| | | | | +--rw graceful-shut-timer?          uint32
| | | | | +--rw enable-peer-bfd?              empty {feature-list:HAVE_BFD}?
| | | | | +--rw enable-peer-bfd-multihop?     empty {feature-list:HAVE_BFD}?
| | | | | +--rw bgp-port?                     uint16
| | | | | +--rw activate?                     empty
| | | | | +--rw de-activate?                  empty

```

```

| | | | +--rw default-peer-route-map-name?      empty
| | | | +--rw peer-route-map-orig-name?         string
| | | | +--rw weight?                           uint16
| | | | +--rw flowspec-validation-disable?       empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--rw peer-route-reflector?             empty
| | | | +--rw peer-remove-private-as?           empty
| | | | +--rw no-send-community?                empty
| | | | +--rw no-send-community-type?           ipi-bgp-types:bgp_send_commu_type_t
| | | | +--rw neighbor-attribute-unchanged?     ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--rw orf-prefix-capability?            ipi-bgp-types:bgp_orf_prefix_type_t
| | | | +--rw peer-allow-ebgp-vpn?              empty {feature-list:HAVE_VRF}?
| | | | +--rw allow-as-number?                  uint32
| | | | +--rw capability-graceful-restart?      empty
| | | | +--rw mapped-peer-group-tag-af?         string
| | | | +--rw unsuppress-route-map-name?        string
| | | | +--rw enable-ext-opt-param-len?         empty
| | | | +--rw additional-paths-mode?            ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all?      empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw tcp-adjust-mss?                   uint16
| | | | +--rw site-origin-identifier?           string {feature-list:HAVE_VRF}?
| | | +--ro state
| | | +--ro counters
| | | | | +--ro keepalive-in-messages?          int32
| | | | | +--ro keepalive-out-messages?         int32
| | | | | +--ro open-messages-in?               int32
| | | | | +--ro open-messages-out?              int32
| | | | | +--ro as-path-count?                  int32
| | | | | +--ro as-path-extended-count?         int32
| | | | | +--ro received-packet-count?          int32
| | | | | +--ro packet-in-queue?                int32
| | | | | +--ro packet-out-queue?               int32
| | | | | +--ro sent-packet-count?              int32
| | | | | +--ro refresh-received-packet-count?  int32
| | | | | +--ro refresh-sent-packet-count?      int32
| | | | | +--ro notification-in?                int32

```

					+--ro notification-out?	int32
					+--ro update-message-in?	int32
					+--ro update-message-out?	int32
					+--ro peer-address?	inet:ip-address
					+--ro peer-as?	uint32
					+--ro source-identifier?	string
					+--ro bgp-version?	uint8
					+--ro peer-connection-interval?	uint32
					+--ro enforce-multihop?	empty
					+--ro peer-shutdown?	empty
					+--ro peer-shutdown-description?	cml-data-types:cml_line_t
					+--ro neighbor-passive?	empty
					+--ro enable-dynamic-capability?	empty
					+--ro min-route-advertisement-interval?	uint32
					+--ro peer-as-origin-interval?	uint32
					+--ro neighbor-as-override?	empty
					+--ro peer-interface-name?	string {feature-list:HAVE_VRF}?
					+--ro peer-description?	cml-data-types:cml_line_t
					+--ro peer-restart-time?	uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
					+--ro graceful-shut?	empty
					+--ro graceful-shut-timer?	uint32
					+--ro enable-peer-bfd?	empty {feature-list:HAVE_BFD}?
					+--ro enable-peer-bfd-multihop?	empty {feature-list:HAVE_BFD}?
					+--ro bgp-port?	uint16
					+--ro activate?	empty
					+--ro de-activate?	empty
					+--ro default-peer-route-map-name?	empty
					+--ro peer-route-map-orig-name?	string
					+--ro weight?	uint16
					+--ro flowspec-validation-disable?	empty {feature-list:HAVE_BGP_FLOWSPEC}?
					+--ro peer-route-reflector?	empty
					+--ro peer-remove-private-as?	empty
					+--ro no-send-community?	empty
					+--ro no-send-community-type?	ipi-bgp-types:bgp_send_commu_type_t
					+--ro neighbor-attribute-unchanged?	ipi-bgp-types:bgp_attribute_unchanged_type_t
					+--ro orf-prefix-capability?	ipi-bgp-types:bgp_orf_prefix_type_t

				++ro peer-allow-ebgp-vpn?	empty {feature-list:HAVE_VRF}?
				++ro allow-as-number?	uint32
				++ro capability-graceful-restart?	empty
				++ro mapped-peer-group-tag-af?	string
				++ro unsuppress-route-map-name?	string
				++ro enable-ext-opt-param-len?	empty
				++ro additional-paths-mode?	ipi-bgp-types:bgp_peer_additional_path_type_t {feature-list:HAVE_BGP_ADD_PATH}?
				++ro additional-path-select-all?	empty {feature-list:HAVE_BGP_ADD_PATH}?
				++ro additional-paths-best-select-count?	uint8 {feature-list:HAVE_BGP_ADD_PATH}?
				++ro tcp-adjust-mss?	uint16
				++ro site-origin-identifier?	string {feature-list:HAVE_VRF}?
				++ro connection-established-count?	int32
				++ro error-notify-sent?	boolean
				++ro notify-code-string?	cml-data-types:cml_line_t
				++ro bgp-peer-state?	ipi-bgp-types:bgp_peer_status_t
				++ro dynamic-peer-address?	ipi-bgp-types:bgp_ip_addr_t
				++ro max-paths-ibgp?	int16
				++ro configured-max-paths-ebgp?	int16
				++ro max-paths-ebgp?	int16
				++ro configured-max-paths-ibgp?	int16
				++ro max-paths-eibgp?	int16
				++ro configured-max-paths-eibgp?	int16
				++ro community-count?	int32
				++ro confederation-id-check?	boolean
				++ro peer-and-extended-asn-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro address-family-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				++ro ipv6-next-hop-global?	inet:ipv6-address
				++ro ipv6-next-hop-local?	inet:ipv6-address
				++ro remote-port?	int32
				++ro remote-address?	ipi-bgp-types:bgp_hostname_t
				++ro local-host?	ipi-bgp-types:bgp_hostname_t
				++ro ipv4-next-hop?	inet:ipv4-address
				++ro local-port?	int32
				++ro default-information-originate?	boolean
				++ro inbound-path-policy?	boolean
				++ro outbound-path-policy?	boolean

```

| | | | +--ro default-originate-information-sent?  cml-data-types:cml_line_t
| | | | +--ro graceful-restart?                  ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro address-family-dependent-capability?  boolean
| | | | +--ro peer-address-family-table-version?   int32
| | | | +--ro address-family-table-version?       int32
| | | | +--ro forward-status-preserve?            string
| | | | +--ro orf-type-prefix?                    cml-data-types:cml_line_t
| | | | +--ro orf-type-prefix-send-mode?          ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-receive-mode?       ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-old?                cml-data-types:cml_line_t
| | | | +--ro orf-type-prefix-send-mode-old?      ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-receive-mode-old?   ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro prefix-count?                       int32
| | | | +--ro send-prefix-count?                   int32
| | | | +--ro flag-shut-down?                      ipi-bgp-types:bgp_peerflag_shutdown_t
| | | | +--ro count?                              int32
| | | | +--ro notify-info?                        boolean
| | | | +--ro notify-last-reset-time?             string
| | | | +--ro connection-type?                   ipi-bgp-types:bgp_connection_type_t
| | | | +--ro next-connection-timer?              int32
| | | | +--ro connection-dropped-count?          int32
| | | | +--ro graceful-restart-status?            string
| | | | +--ro graceful-restart-time?              int32
| | | | +--ro bgp-established-up-time?            string
| | | | +--ro last-read-time?                     string
| | | | +--ro link-type?                          ipi-bgp-types:bgp_link_type_t
| | | | +--ro ebgp-hop-away-count?                int32
| | | | +--ro router-id?                          inet:ipv4-address
| | | | +--ro advertisement-interval?             int32
| | | | +--ro calculated-hold-time?               int32
| | | | +--ro calculated-keepalive?               int32
| | | | +--ro dynamic-capability?                cml-data-types:cml_line_t
| | | | +--ro route-refresh-capability?           ipi-bgp-types:bgp_route_refresh_cap_type_t
| | | | +--ro no-interface-binding?               boolean
| | | | +--ro additional-path-receive-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?

```

```

| | | | +--ro additional-path-send-capability?      ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro capability-ipv4-unicast?              ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-label-unicast?             ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
| | | | +--ro capability-ipv4-multicast?            ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv4-unicast?             ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv6-unicast?            ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-rtfilter-unicast?          ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-l2vpn-evpn?               ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-unicast?             ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-multicast?           ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-label-unicast?       ipi-bgp-types:bgp_capability_type_t
| | | | +--ro evpn-ad-route-count?                 uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-mac-ip-route-count?             uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-inclusive-multicast-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-segment-route-count?            uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-ip-prefix-route-count?         uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--rw timers
| | | +--rw config!
| | | | +--rw keep-alive    uint16
| | | | +--rw hold-time    uint16
| | | | +--ro state
| | | |   +--ro keep-alive  uint16
| | | |   +--ro hold-time   uint16
| | | +--rw ebgp-multihop
| | | +--rw config!
| | | | +--rw maximum-hop-count? uint8
| | | | +--rw enabled          empty
| | | | +--ro state
| | | |   +--ro maximum-hop-count? uint8
| | | |   +--ro enabled          empty
| | | +--rw maximum-prefixes
| | | | +--rw maximum-prefix* [prefix-count]
| | | |   +--rw prefix-count  -> ../config/prefix-count
| | | |   +--rw config
| | | | | +--rw prefix-count?      uint32

```

```

| | | | | +--rw stop-update?          empty
| | | | | +--rw maximum-prefix-warning? empty
| | | | | +--rw threshold-percentage?  uint8
| | | | | +--rw warning-only?          empty
| | | | | +--ro state
| | | | |   +--ro prefix-count?         uint32
| | | | |   +--ro stop-update?          empty
| | | | |   +--ro maximum-prefix-warning? empty
| | | | |   +--ro threshold-percentage?  uint8
| | | | |   +--ro warning-only?          empty
| | | | +--rw bgp-passwords
| | | | | +--rw bgp-password* [password]
| | | | | +--rw password -> ../config/password
| | | | | +--rw config
| | | | | | +--rw password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | | | +--ro state
| | | | | |   +--ro password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | +--rw distribute-list-filters
| | | | | +--rw distribute-list-filter* [filter-direction]
| | | | | +--rw filter-direction -> ../config/filter-direction
| | | | | +--rw config
| | | | | | +--rw access-list-identifier string
| | | | | | +--rw filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | | +--ro state
| | | | | |   +--ro access-list-identifier string
| | | | | |   +--ro filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw as-list-filters
| | | | | +--rw as-list-filter* [as-list-direction]
| | | | | +--rw as-list-direction -> ../config/as-list-direction
| | | | | +--rw config
| | | | | | +--rw as-access-list-identifier string
| | | | | | +--rw as-list-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | | +--ro state
| | | | | |   +--ro as-access-list-identifier string

```

```

| | | | +--ro as-list-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw prefix-list-filters
| | | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | | +--rw prefix-filter-direction  -> ../config/prefix-filter-direction
| | | | +--rw config
| | | | | +--rw prefix-list-name      string
| | | | | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | +--ro state
| | | | | +--ro prefix-list-name      string
| | | | | +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw route-map-filters
| | | | | +--rw route-map-filter* [route-map-direction]
| | | | | +--rw route-map-direction  -> ../config/route-map-direction
| | | | | +--rw config
| | | | | | +--rw route-map-name      string
| | | | | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | | +--ro state
| | | | | | +--ro route-map-name      string
| | | | | | +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw local-as
| | | | | +--rw local-as-list* [peer-local-as]
| | | | | +--rw peer-local-as  -> ../config/peer-local-as
| | | | | +--rw config
| | | | | | +--rw peer-local-as?      uint32
| | | | | | +--rw no-prepend-local-as? empty
| | | | | | +--rw replace-local-as?  empty
| | | | | | +--ro state
| | | | | | +--ro peer-local-as?      uint32
| | | | | | +--ro no-prepend-local-as? empty
| | | | | | +--ro replace-local-as?  empty
| | | | +--ro outbound-route-filter
| | | | | +--ro state
| | | | | +--ro orf-prefix-string?  boolean
| | | | | +--ro orf-prefix-send?   string
| | | | | +--ro orf-prefix-count?  string
| | | | | +--ro orf-wait-refresh?  boolean

```

```

| | | +--ro peer-prefix
| | | | +--ro state
| | | | +--ro entry-sequence?  int32
| | | | +--ro entry-type?      ipi-bgp-types:bgp_prefix_entry_type_t
| | | | +--ro entry-max-length? int32
| | | | +--ro entry-min-length? int32
| | | | +--ro prefix-length?   int32
| | | +--ro peer-index
| | |   +--ro state
| | |     +--ro peer-index?  int32
| | |     +--ro offset?      int32
| | |     +--ro mask?        string
| | +--rw network-lists
| |   +--rw network-list* [local-network-prefix]
| |     +--rw local-network-prefix  -> ../config/local-network-prefix
| |     +--rw config
| |       +--rw local-network-prefix? ipi-bgp-types:bgp_ip_network_t
| |       +--rw network-rmap-name?   string
| |       +--rw backdoor?             empty
| |       +--ro state
| |         +--ro local-network-prefix? ipi-bgp-types:bgp_ip_network_t
| |         +--ro network-rmap-name?    string
| |         +--ro backdoor?             empty
| |         +--ro network-path-route-count? int32
| |         +--ro no-advertise-route?    string
| |         +--ro no-export-route?       boolean
| |         +--ro local-as-route?        boolean
| |         +--ro suppress-route?        boolean
| |         +--ro network-best-path-route-count? int32
| |         +--ro ip-routing-table?      string
| |         +--ro advertised-non-peer-group-address* ipi-bgp-types:bgp_hostname_t
| |         +--ro advertised-peer-group-name-route* string
| |         +--ro advertised-any-peer?    boolean
| |         +--ro route-distinguisher-string? string {feature-list:HAVE_MPLS}?
| |   +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| |   +--rw config

```

```

| | | | +--rw validation-enable?    empty
| | | | +--rw bestpath-use-validity? empty
| | | | +--rw bestpath-allow-invalid? empty
| | | +--ro state
| | |   +--ro validation-enable?    empty
| | |   +--ro bestpath-use-validity? empty
| | |   +--ro bestpath-allow-invalid? empty
| | +--rw peer-groups
| |   +--rw peer-group* [peer-group-tag]
| |     +--rw peer-group-tag        -> ../config/peer-group-tag
| |     +--rw config
| |       | +--rw peer-group-range      ipi-bgp-types:bgp_peer_group_type_t
| |       | +--rw group-limit?          uint16
| |       | +--rw peer-group-tag?       string
| |       | +--rw peer-as?              uint32
| |       | +--rw source-identifier?     string
| |       | +--rw bgp-version?          uint8
| |       | +--rw peer-connection-interval? uint32
| |       | +--rw enforce-multihop?     empty
| |       | +--rw peer-shutdown?        empty
| |       | +--rw peer-shutdown-description? cml-data-types:cml_line_t
| |       | +--rw neighbor-passive?     empty
| |       | +--rw connection-retry-interval? int32
| |       | +--rw enable-dynamic-capability? empty
| |       | +--rw min-route-advertisement-interval? uint32
| |       | +--rw peer-as-origin-interval? uint32
| |       | +--rw neighbor-as-override? empty
| |       | +--rw peer-description?     cml-data-types:cml_line_t
| |       | +--rw peer-restart-time?    uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
| |       | +--rw graceful-shut?        empty
| |       | +--rw graceful-shut-timer?  uint32
| |       | +--rw enable-peer-bfd?      empty {feature-list:HAVE_BFD}?
| |       | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| |       | +--rw enable-ext-opt-param-len? empty
| |       | +--rw tcp-adjust-mss?       uint16
| |       | +--rw bgp-port?             uint16

```

```

| | | +--rw activate?          empty
| | | +--rw default-peer-route-map-name?    empty
| | | +--rw peer-route-map-orig-name?      string
| | | +--rw weight?                    uint16
| | | +--rw flowspec-validation-disable?    empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--rw peer-route-reflector?          empty
| | | +--rw peer-remove-private-as?        empty
| | | +--rw no-send-community?             empty
| | | +--rw no-send-community-type?        ipi-bgp-types:bgp_send_commu_type_t
| | | +--rw neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +--rw orf-prefix-capability?        ipi-bgp-types:bgp_orf_prefix_type_t
| | | +--rw peer-allow-ebgp-vpn?          empty {feature-list:HAVE_VRF}?
| | | +--rw allow-as-number?              uint32
| | | +--rw capability-graceful-restart?   empty
| | | +--rw unsuppress-route-map-name?     string
| | | +--rw additional-paths-mode?        ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-path-select-all?   empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-paths-best-select-count?  uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw site-origin-identifier?        string {feature-list:HAVE_VRF}?
| | +--ro state
| | | +--ro peer-group-range              ipi-bgp-types:bgp_peer_group_type_t
| | | +--ro group-limit?                  uint16
| | | +--ro peer-group-tag?               string
| | | +--ro peer-as?                      uint32
| | | +--ro source-identifier?             string
| | | +--ro bgp-version?                  uint8
| | | +--ro peer-connection-interval?     uint32
| | | +--ro enforce-multihop?             empty
| | | +--ro peer-shutdown?                empty
| | | +--ro peer-shutdown-description?    cml-data-types:cml_line_t
| | | +--ro neighbor-passive?             empty
| | | +--ro connection-retry-interval?    int32
| | | +--ro enable-dynamic-capability?    empty
| | | +--ro min-route-advertisement-interval?  uint32
| | | +--ro peer-as-origin-interval?      uint32
| | | +--ro neighbor-as-override?        empty

```

```

| | | +--ro peer-description?          cml-data-types:cml_line_t
| | | +--ro peer-restart-time?         uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
| | | +--ro graceful-shut?             empty
| | | +--ro graceful-shut-timer?       uint32
| | | +--ro enable-peer-bfd?           empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop?  empty {feature-list:HAVE_BFD}?
| | | +--ro enable-ext-opt-param-len?   empty
| | | +--ro tcp-adjust-mss?            uint16
| | | +--ro bgp-port?                 uint16
| | | +--ro activate?                 empty
| | | +--ro default-peer-route-map-name? empty
| | | +--ro peer-route-map-orig-name?   string
| | | +--ro weight?                   uint16
| | | +--ro flowspec-validation-disable? empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--ro peer-route-reflector?      empty
| | | +--ro peer-remove-private-as?    empty
| | | +--ro no-send-community?         empty
| | | +--ro no-send-community-type?    ipi-bgp-types:bgp_send_commu_type_t
| | | +--ro neighbor-attribute-unchanged? ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +--ro orf-prefix-capability?     ipi-bgp-types:bgp_orf_prefix_type_t
| | | +--ro peer-allow-ebgp-vpn?       empty {feature-list:HAVE_VRF}?
| | | +--ro allow-as-number?          uint32
| | | +--ro capability-graceful-restart? empty
| | | +--ro unsuppress-route-map-name?  string
| | | +--ro additional-paths-mode?     ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro site-origin-identifier?    string {feature-list:HAVE_VRF}?
| | +--rw optional-as-lists
| | | +--rw optional-as-list* [optional-as]
| | | | +--rw optional-as -> ../config/optional-as
| | | | +--rw config
| | | | | +--rw optional-as? uint32
| | | | +--ro state
| | | | | +--ro optional-as? uint32
| | +--rw bgp-passwords

```

```

| | | +--rw bgp-password* [password]
| | |   +--rw password  -> ../config/password
| | |   +--rw config
| | |     | +--rw password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | |     | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | |     +--ro state
| | |       +--ro password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | |       +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | +--rw timers
| |   +--rw config!
| |     | +--rw keep-alive  uint16
| |     | +--rw hold-time   uint16
| |     +--ro state
| |       +--ro keep-alive  uint16
| |       +--ro hold-time   uint16
| +--rw local-as
|   +--rw local-as-list* [peer-local-as]
|     +--rw peer-local-as -> ../config/peer-local-as
|     +--rw config
|       | +--rw peer-local-as?   uint32
|       | +--rw no-prepend-local-as? empty
|       | +--rw replace-local-as? empty
|       +--ro state
|         +--ro peer-local-as?   uint32
|         +--ro no-prepend-local-as? empty
|         +--ro replace-local-as? empty
| +--rw ebgp-multihop
|   +--rw config!
|     | +--rw maximum-hop-count? uint8
|     | +--rw enabled             empty
|     +--ro state
|       +--ro maximum-hop-count? uint8
|       +--ro enabled             empty
| +--rw maximum-prefixes
|   +--rw maximum-prefix* [prefix-count]
|   +--rw prefix-count -> ../config/prefix-count

```

```

| | | +--rw config
| | | | +--rw prefix-count?      uint32
| | | | +--rw stop-update?       empty
| | | | +--rw maximum-prefix-warning? empty
| | | | +--rw threshold-percentage? uint8
| | | | +--rw warning-only?      empty
| | | +--ro state
| | | | +--ro prefix-count?      uint32
| | | | +--ro stop-update?       empty
| | | | +--ro maximum-prefix-warning? empty
| | | | +--ro threshold-percentage? uint8
| | | | +--ro warning-only?      empty
| | +--rw distribute-list-filters
| | | +--rw distribute-list-filter* [filter-direction]
| | | | +--rw filter-direction -> ../config/filter-direction
| | | | +--rw config
| | | | | +--rw access-list-identifier string
| | | | | +--rw filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | | +--ro access-list-identifier string
| | | | | +--ro filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw as-list-filters
| | | +--rw as-list-filter* [as-list-direction]
| | | | +--rw as-list-direction -> ../config/as-list-direction
| | | | +--rw config
| | | | | +--rw as-access-list-identifier string
| | | | | +--rw as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | | +--ro as-access-list-identifier string
| | | | | +--ro as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw prefix-list-filters
| | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | | +--rw prefix-filter-direction -> ../config/prefix-filter-direction
| | | | +--rw config
| | | | | +--rw prefix-list-name string
| | | | | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t

```

```

| | | +--ro state
| | | +--ro prefix-list-name      string
| | | +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw route-map-filters
| |   +--rw route-map-filter* [route-map-direction]
| |     +--rw route-map-direction -> ../config/route-map-direction
| |     +--rw config
| |       | +--rw route-map-name      string
| |       | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| |       +--ro state
| |         +--ro route-map-name      string
| |         +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| +--rw peer-engineering
| | +--rw config
| | | +--rw enable-epe? empty
| | | +--ro state
| | |   +--ro enable-epe? empty
| +--rw rpki
| | +--rw servers
| | | +--rw server* [server-address]
| | |   +--rw server-address -> ../config/server-address
| | |   +--rw config
| | |     | +--rw server-address?      ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
| | |     | +--rw server-protocol-type? ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
| | |     | +--rw port?                uint16
| | |     | +--rw user?                string
| | |     | +--rw password?            ipi-bgp-types:bgp_md5_password_t
| | |     | +--rw auth-key-encrypt?    ipi-bgp-types:bgp_md5_t
| | |     | +--rw refresh-interval?    uint32
| | |     | +--rw retry-interval?      uint32
| | |     | +--rw expire-interval?     uint32
| | |     +--ro state
| | |       +--ro server-address?      ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
| | |       +--ro server-protocol-type? ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
| | |       +--ro port?                uint16
| | |       +--ro user?                string

```

```

|   |   +--ro password?                ipi-bgp-types:bgp_md5_password_t
|   |   +--ro auth-key-encrypt?         ipi-bgp-types:bgp_md5_t
|   |   +--ro refresh-interval?         uint32
|   |   +--ro retry-interval?           uint32
|   |   +--ro expire-interval?          uint32
|   |   +--ro route-to-route-version?   uint8
|   |   +--ro route-to-route-client-state? ipi-bgp-rpki-types:bgp_rpki_rtr_client_state
|   |   +--ro route-to-route-sockets-sync? boolean
|   |   +--ro rpki-uptime?              yang:timeticks
|   |   +--ro ipv4-route-origin-authorizations-count? uint32
|   |   +--ro ipv6-route-origin-authorizations-count? uint32
|   |   +--ro actual-refresh-interval?   uint32
|   |   +--ro actual-retry-interval?     uint32
|   |   +--ro actual-expire-interval?    uint32
|   |   +--ro rest-of-time-to-refresh-interval-expiration? uint32
|   |   +--ro rest-of-time-to-expire-interval-expiration? uint32
|   |   +--ro client-session-to-be-deleted? boolean
|   +--ro tables-ipv4
|   |   +--ro table-ipv4* [prefix-ipv4 max-length as-number server-address]
|   |   |   +--ro prefix-ipv4    -> ../state/prefix-ipv4
|   |   |   +--ro max-length     -> ../state/max-length
|   |   |   +--ro as-number      -> ../state/as-number
|   |   |   +--ro server-address -> ../state/server-address
|   |   |   +--ro state
|   |   |   |   +--ro prefix-ipv4? cml-data-types:cml_ipv4_prefix_t
|   |   |   |   +--ro max-length?  uint8
|   |   |   |   +--ro as-number?   uint32
|   |   |   |   +--ro server-address? ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
|   +--ro tables-ipv6
|   |   +--ro table-ipv6* [prefix-ipv6 max-length as-number server-address]
|   |   |   +--ro prefix-ipv6    -> ../state/prefix-ipv6
|   |   |   +--ro max-length     -> ../state/max-length
|   |   |   +--ro as-number      -> ../state/as-number
|   |   |   +--ro server-address -> ../state/server-address
|   |   |   +--ro state
|   |   |   |   +--ro prefix-ipv6? cml-data-types:cml_ipv6_prefix_t

```

```

|      +--ro max-length?      uint8
|      +--ro as-number?       uint32
|      +--ro server-address?   ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
+--rw flowspec
  +--rw controllers
    +--rw controller* [enable-flowspec-controller]
      +--rw enable-flowspec-controller -> ../config/enable-flowspec-controller
      +--rw config
        | +--rw enable-flowspec-controller? empty
        | +--rw local-install?          ipi-bgp-flowspec-types:flowspec_local_install_t
        +--ro state
          | +--ro enable-flowspec-controller? empty
          | +--ro local-install?          ipi-bgp-flowspec-types:flowspec_local_install_t
        +--rw address-families
          | +--rw address-family* [afi-type]
          |   +--rw afi-type          -> ../config/afi-type
          |   +--rw config
          |     | +--rw afi-type?      ipi-bgp-flowspec-types:flowspec_afi_type_t
          |     | +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
          |     | +--ro state
          |     |   | +--ro afi-type?   ipi-bgp-flowspec-types:flowspec_afi_type_t
          |     |   | +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
          |     |   +--rw service-policies
          |     |     +--rw service-policy* [attached-policy-map-name service-policy-type]
          |     |     +--rw attached-policy-map-name -> ../config/attached-policy-map-name
          |     |     +--rw service-policy-type      -> ../config/service-policy-type
          |     |     +--rw config
          |     |       | +--rw attached-policy-map-name? string
          |     |       | +--rw service-policy-type?      ipi-enhanced-pbr-types:epbr_policy_map_t
          |     |       +--ro state
          |     |         +--ro attached-policy-map-name? string
          |     |         +--ro service-policy-type?      ipi-enhanced-pbr-types:epbr_policy_map_t
          +--rw vrfs
            +--rw vrf* [vrf-name]
              +--rw vrf-name          -> ../config/vrf-name
              +--rw config

```

```

| +--rw vrf-name?      string
| +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
+--ro state
| +--ro vrf-name?      string
| +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
+--rw address-families
  +--rw address-family* [afi-type]
    +--rw afi-type      -> ../config/afi-type
    +--rw config
      | +--rw afi-type?    ipi-bgp-flowspec-types:flowspec_afi_type_t
      | +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
      +--ro state
        | +--ro afi-type?    ipi-bgp-flowspec-types:flowspec_afi_type_t
        | +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
        +--rw service-policies
          +--rw service-policy* [attached-policy-map-name service-policy-type]
            +--rw attached-policy-map-name -> ../config/attached-policy-map-name
            +--rw service-policy-type      -> ../config/service-policy-type
            +--rw config
              | +--rw attached-policy-map-name? string
              | +--rw service-policy-type?    ipi-enhanced-pbr-types:epbr_policy_map_t
              +--ro state
                +--ro attached-policy-map-name? string
                +--ro service-policy-type?    ipi-enhanced-pbr-types:epbr_policy_map_t

```

rpcs:

```

+---x clear-ip-bgp-peer {feature-list:HAVE_BGPD}?
| +---w input
|   +---w arg          ipi-bgp-types:bgp_hostname_t
|   +---w peer-reset-description? cml-data-types:cml_line_t
+---x clear-peer-group-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
| +---w input
|   +---w peer-group-tag string
|   +---w soft-reconfig ipi-bgp-types:bgp_update_clear_t
+---x clear-ip-bgp-all-peer {feature-list:HAVE_BGPD}?
| +---w input

```



```

| +---w peer-reset-description?  cml-data-types:cml_line_t
+---x clear-bgp-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
| +---w input
| +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
+---x clear-bgp-remote-as-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
| +---w input
| +---w peer-as          uint32
| +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
+---x clear-bgp-peer-address-l2vpn-evpn-soft {feature-list:HAVE_BGP_EVPN}?
| +---w input
| +---w peer-address     ipi-bgp-types:bgp_ip_addr_t
| +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
+---x clear-ip-bgp-all-vrf {feature-list:HAVE_BGPD}?
| +---w input
| +---w vrf-name          string
| +---w peer-reset-description?  cml-data-types:cml_line_t
+---x clear-ip-bgp-vrf-peer {feature-list:HAVE_BGPD}?
| +---w input
| +---w vrf-name          string
| +---w address           ipi-bgp-types:bgp_hostname_t
| +---w peer-reset-description?  cml-data-types:cml_line_t
+---x bgp-graceful-restart {feature-list:HAVE_RESTART}?
+---x clear-bgp-statistics {feature-list:HAVE_BGPD}?
+---x bgp-snmp-restart {feature-list:HAVE_BGPD}?
+---x bgp-debug-on {feature-list:HAVE_BGPD}?
| +---w input
| +---w terminal-debug-options  ipi-bgp-types:bgp_debug_t
+---x bgp-debug-off {feature-list:HAVE_BGPD}?
| +---w input
| +---w terminal-debug-options  ipi-bgp-types:bgp_debug_t
+---x bgp-all-debug-off {feature-list:HAVE_BGPD}?

```

notifications:

```

+---n bgp-established-notification
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t

```

```

| +--ro peer-address?  ipi-bgp-types:bgp_ip_addr_t
| +--ro bgp-as?        uint32
| +--ro peer-state?    ipi-bgp-types:bgp_peer_status_t
+---n bgp-backward-transition-notification
    +--ro severity?     cml-data-types:cml_notif_severity_t
    +--ro eventClass?   cml-data-types:cml_notif_class_t
    +--ro peer-address? ipi-bgp-types:bgp_ip_addr_t
    +--ro bgp-as?       uint32
    +--ro peer-state?   ipi-bgp-types:bgp_peer_status_t

```

ipi-bridge-domain

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw bridge-domain {feature-list:HAVE_SUBINTERFACE,feature-
list:NOT_HAVE_CUSTOM1_SUBINTERFACE,feature-list:NOT_HAVE_SWFWDR}?
  +--rw config
  | +--rw domain-id?      -> /ipi-network-instance:network-instances/network-instance/instance-name
  | +--rw description?    cml-data-types:cml_line_t
  | +--rw route-interface? -> /ipi-interface:interfaces/interface/name
  +--rw bridge-instance
  | +--rw config!
  | | +--rw instance-id  uint8
  | | +--rw bridge-id    string
  | +--ro state
  |   +--ro instance-id  uint8
  |   +--ro bridge-id    string
  +--ro state
  | +--ro domain-id?     -> /ipi-network-instance:network-instances/network-instance/instance-name
  | +--ro description?   cml-data-types:cml_line_t
  | +--ro route-interface? -> /ipi-interface:interfaces/interface/name
  +--rw member-interfaces
  | +--rw member-interface* [name]
  |   +--rw name          -> ../config/name
  |   +--rw config
  | | +--rw name?        -> /ipi-interface:interfaces/interface/name

```

```

|   +--ro state
|   +--ro name?  -> /ipi-interface:interfaces/interface/name
+--rw bridge-domain-mac-table
  +--rw static-entry* [mac-address]
    | +--rw mac-address  -> ../config/mac-address
    | +--rw config
    | | +--rw mac-address?   cml-data-types:cml_mac_addr_t
    | | +--rw action        ipi-bridge-types:bridge_domain_forward_deny_t
    | | +--rw interface-name -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name
    | +--ro state
    | +--ro mac-address?   cml-data-types:cml_mac_addr_t
    | +--ro action        ipi-bridge-types:bridge_domain_forward_deny_t
    | +--ro interface-name -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name
  +--ro dynamic-entry* [mac-address]
    +--ro mac-address  -> ../state/mac-address
    +--ro state
      +--ro mac-address?   cml-data-types:cml_mac_addr_t
      +--ro interface-name? -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name

```

ipi-bridge

```

+--rw global-bridge-vlan-check
  +--rw global
    +--rw config
      | +--rw enable?  empty
    +--ro state
      +--ro enable?  empty

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw bridge
  +--rw config!
    | +--rw protocol          ipi-bridge-types:bridge_protocol_t
    | +--rw disable-dynamic-learning?  empty

```

```

| +--rw l2-protocol-destination-mac?  cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
| +--rw dot1ad-encapsulation?         empty {feature-list:HAVE_DUNE}?
+--ro state
| +--ro protocol                      ipi-bridge-types:bridge_protocol_t
| +--ro disable-dynamic-learning?     empty
| +--ro l2-protocol-destination-mac?  cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
| +--ro dot1ad-encapsulation?         empty {feature-list:HAVE_DUNE}?
+--rw bridge-ports
| +--rw interface* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|     | +--rw name?                -> /ipi-interface:interfaces/interface/name
|     | +--rw spanning-tree-protocol-status? ipi-bridge-types:bridge_spanningtree_enable_disable_t
|     +--ro state
|       +--ro name?                -> /ipi-interface:interfaces/interface/name
|       +--ro spanning-tree-protocol-status? ipi-bridge-types:bridge_spanningtree_enable_disable_t
|       +--ro switchport-mode?      ipi-port-vlan-types:port_vlan_switch_port_mode_t
+--rw fdb
  +--rw interfaces
  | +--rw interface* [interface-name]
  |   +--rw interface-name  -> ../config/interface-name
  |   +--rw config
  |     | +--rw interface-name?      -> /ipi-interface:interfaces/interface/name
  |     | +--rw disable-mac-learning  empty
  |     +--ro state
  |       +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
  |       +--ro disable-mac-learning  empty
  +--rw static-mac-table
  | +--rw entry* [mac-address]
  |   +--rw mac-address  -> ../config/mac-address
  |   +--rw config
  |     | +--rw interface-name  -> /ipi-interface:interfaces/interface/name
  |     | +--rw mac-address?    cml-data-types:cml_mac_addr_t
  |     | +--rw action          ipi-bridge-types:bridge_discardforward_t
  |     +--ro state
  |       +--ro interface-name  -> /ipi-interface:interfaces/interface/name

```

```

|   +--ro mac-address?   cml-data-types:cml_mac_addr_t
|   +--ro action         ipi-bridge-types:bridge_discardforward_t
+--rw dynamic-mac-table
  +--ro entry* [mac-address vlan-id] {feature-list:HAVE_HAL}?
    +--ro mac-address    -> ../state/mac-address
    +--ro vlan-id        -> ../state/vlan-id
    +--ro state {feature-list:HAVE_HAL}?
      +--ro mac-address?   cml-data-types:cml_mac_addr_t
      +--ro vlan-id?       uint16
      +--ro svlan-id?      uint16 {feature-list:HAVE_PROVIDER_BRIDGE}?
      +--ro interface-name? -> /ipi-interface:interfaces/interface/name
      +--ro action?        ipi-bridge-types:bridge_discardforward_t
      +--ro entry-time-out? uint32

```

rpcs:

```

+---x bridge-clear-provider-edge-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w mac-type   ipi-bridge-types:bridge_mac_type_t
|   +---w cvlan-id   uint16
|   +---w svlan-id   uint16
|   +---w bridge-id  string
+---x bridge-clear-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w mac-type   ipi-bridge-types:bridge_mac_type_t
|   +---w bridge-id   string
|   +---w interface-name? string
|   +---w mac-address? cml-data-types:cml_mac_addr_t
|   +---w vlan-id?    uint16
+---x bridge-clear-provider-edge-dynamic-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w cvlan-id   uint16
|   +---w svlan-id   uint16
|   +---w bridge-id  string
+---x bridge-clear-dynamic-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w bridge-id   string

```

```

|   +---w mac-address?    cml-data-types:cml_mac_addr_t
|   +---w interface-name? string
|   +---w vlan-id?        uint16
+---x bridge-clear-mstp-port-dynamic-mac-address-table {feature-list:HAVE_L2}?
    +---w input
        +---w interface-name  string
        +---w instance-id     uint32
        +---w bridge-id       string

```

ipi-cfm

```

+--rw cfm {feature-list:HAVE_CFM}?
    +--rw global
        | +--ro loopback
        | | +--ro state
        | | | +--ro counters
        | | |   +--ro messages-transmitted?    yang:zero-based-counter32
        | | |   +--ro replies-received?        yang:zero-based-counter32
        | | |   +--ro out-of-order-replies-received? yang:zero-based-counter32
        | | |   +--ro bad-msdu?                yang:zero-based-counter32
        | +--rw linktrace
        | | +--rw cache
        | | | +--rw config!
        | | | | +--rw cache-enable  empty
        | | | | +--rw cache-size?   uint16
        | | | | +--ro state
        | | | |   +--ro cache-enable  empty
        | | | |   +--ro cache-size?   uint16
        | | +--ro state
        | | | +--ro counters
        | | |   +--ro messages-transmitted?    yang:zero-based-counter32
        | | |   +--ro replies-transmitted?     yang:zero-based-counter32

```

```

| |   +--ro valid-replies-received?   yang:zero-based-counter32
| |   +--ro unexpected-replies-received? yang:zero-based-counter32
| +--rw nvo3-oam
|   +--rw config
|     | +--rw enable?  empty
|     | +--rw mode?    ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
|     +--ro state
|       +--ro enable?  empty
|       +--ro mode?    ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
+--rw debug
| +--rw config
| | +--rw options?  ipi-cfm-data-types:cfm_debug_t
| +--ro state
|   +--ro options?      ipi-cfm-data-types:cfm_debug_t
|   +--ro terminal-debug-status? ipi-cfm-data-types:cfm_debug_t
+--rw maintenance-domains
| +--rw maintenance-domain* [md-name]
|   +--rw md-name          -> ../config/md-name
|   +--rw config
|     | +--rw md-name?    string
|     | +--rw type        ipi-cfm-data-types:cfm_md_type_t
|     | +--rw level       uint8
|     | +--rw mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|     +--ro state
|       | +--ro md-name?    string
|       | +--ro type        ipi-cfm-data-types:cfm_md_type_t
|       | +--ro level       uint8
|       | +--ro mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|       +--rw maintenance-associations
|         | +--rw maintenance-association* [ma-name]
|         |   +--rw ma-name          -> ../config/ma-name
|         |   +--rw config
|         |     | +--rw mip-creation?      ipi-cfm-data-types:cfm_ma_mip_creation_mode_t
|         |     | +--rw vlan-id?          uint16
|         |     | +--rw inner-vlan-id?     uint16
|         |     | +--rw bridge-id?        -> /ipi-network-instance:network-instances/network-instance/instance-name

```

```

    | | | +--rw link-level-ma?          empty
    | | | +--rw mip-interface-name*      -> /ipi-interface:interfaces/interface/name {feature-
list:HAVE_PROVIDER_BRIDGE}?
    | | | +--rw evpn-id?                 uint32 {feature-list:HAVE_BGP_EVPN,feature-
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?
    | | | +--rw vpws-vc-name?           string {feature-list:HAVE_MPLS_VC,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
    | | | +--rw ma-name?                 string
    | | | +--rw type                     ipi-cfm-data-types:cfm_ma_type_t
    | | | +--rw ccm-interval?            ipi-cfm-data-types:cfm_msg_interval_t
    | | | +--rw enable-rmep-auto-discovery? empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    | | | +--rw static-rmep-identifiers* uint16
    | | +--ro state
    | | | +--ro mip-creation?             ipi-cfm-data-types:cfm_ma_mip_creation_mode_t
    | | | +--ro vlan-id?                  uint16
    | | | +--ro inner-vlan-id?            uint16
    | | | +--ro bridge-id?                -> /ipi-network-instance:network-instances/network-instance/instance-name
    | | | +--ro link-level-ma?            empty
    | | | +--ro mip-interface-name*      -> /ipi-interface:interfaces/interface/name {feature-
list:HAVE_PROVIDER_BRIDGE}?
    | | | +--ro evpn-id?                 uint32 {feature-list:HAVE_BGP_EVPN,feature-
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?
    | | | +--ro vpws-vc-name?           string {feature-list:HAVE_MPLS_VC,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
    | | | +--ro ma-name?                 string
    | | | +--ro type                     ipi-cfm-data-types:cfm_ma_type_t
    | | | +--ro ccm-interval?            ipi-cfm-data-types:cfm_msg_interval_t
    | | | +--ro enable-rmep-auto-discovery? empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    | | | +--ro static-rmep-identifiers* uint16
    | | +--rw maintenance-end-points
    | | | +--rw maintenance-end-point* [mep-id]
    | | |   +--rw mep-id                  -> ../config/mep-id
    | | |   +--rw config
    | | |     | +--rw mep-id?              uint16
    | | |     | +--rw direction            ipi-cfm-data-types:cfm_mep_direction_t
    | | |     | +--rw administrative-state ipi-cfm-data-types:cfm_mep_state_t
    | | |     | +--rw mep-outer-vlan?      uint16
    | | |     | +--rw mep-inner-vlan?      uint16

```

```

| | | | +--rw bw-mapped-interface? -> /ipi-interface:interfaces/interface/name
| | | | +--rw interface-name?      -> /ipi-interface:interfaces/interface/name
| | | | +--rw remote-vpws-vc-name?  string
| | | | +--rw remote-evpn-id?       uint32 {feature-list:NOT_HAVE_MARVELL}?
| | | | +--rw remote-vtep-ip?       inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
| | | | +--ro state
| | | | +--ro mep-id?               uint16
| | | | +--ro direction             ipi-cfm-data-types:cfm_mep_direction_t
| | | | +--ro administrative-state   ipi-cfm-data-types:cfm_mep_state_t
| | | | +--ro mep-outer-vlan?       uint16
| | | | +--ro mep-inner-vlan?       uint16
| | | | +--ro interface-name?       -> /ipi-interface:interfaces/interface/name
| | | | +--ro remote-vpws-vc-name?  string
| | | | +--ro remote-evpn-id?       uint32 {feature-list:NOT_HAVE_MARVELL}?
| | | | +--ro mac-address?          cml-data-types:cml_mac_addr_t
| | | | +--ro ma-status?            ipi-cfm-data-types:cfm_ma_status_t
| | | | +--ro mep-connectivity-status? ipi-cfm-data-types:cfm_mep_connectivity_status_t
| | | | +--ro bw-mapped-interface?  -> /ipi-interface:interfaces/interface/name
| | | | +--ro remote-vtep-ip?       inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
| | | | +--rw continuity-check
| | | | +--rw config
| | | | | +--rw enable-cc-multicast? empty
| | | | | +--rw lowest-fault-priority-defect? ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
| | | | | +--rw mep-rmep-auto-discovery?     empty {feature-list:HAVE_DUNE}?
| | | | | +--rw mep-rmep-cross-check*        uint16 {feature-list:HAVE_DUNE}?
| | | | | +--ro state
| | | | | +--ro enable-cc-multicast?          empty
| | | | | +--ro lowest-fault-priority-defect? ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
| | | | | +--ro mep-rmep-auto-discovery?      empty {feature-list:HAVE_DUNE}?
| | | | | +--ro mep-rmep-cross-check*         uint16 {feature-list:HAVE_DUNE}?
| | | | | +--ro highest-priority-defect-found? ipi-cfm-data-types:cfm_mep_highest_fault_defect_t
| | | | | +--ro cc-received-defect?           ipi-cfm-data-types:cfm_received_ccm_defect_t
| | | | | +--ro cc-messages-received?        yang:zero-based-counter32
| | | | | +--ro cc-messages-sent?            yang:zero-based-counter32
| | | | | +--ro remote-mep-database
| | | | | +--ro remote-mep* [rmep-id]

```

```

| | | | +--ro rmep-id -> ../state/rmep-id
| | | | +--ro state
| | | | +--ro rmep-id? uint16
| | | | +--ro mac-address? cml-data-types:cml_mac_addr_t
| | | | +--ro rdi? empty
| | | | +--ro evpn-ccms
| | | | +--ro evpn-ccm* [remote-mep-id]
| | | | +--ro remote-mep-id -> ../state/remote-mep-id
| | | | +--ro state
| | | | +--ro remote-mep-id? uint32
| | | | +--ro last-good-flow-id? uint32
| | | | +--ro last-recovered-flow-id? uint32
| | | | +--ro first-good-sequence-number? uint32
| | | | +--ro last-good-sequence-number? uint32
| | | | +--ro flow-state? ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
| | | | +--ro last-flapped-time? yang:date-and-time
| | | | +--ro last-recovered-time? yang:date-and-time
| | | +--ro loopback
| | | +--ro last-test-result
| | | +--ro state
| | | +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
| | | +--ro messages-transmitted? yang:zero-based-counter32
| | | +--ro replies-received? yang:zero-based-counter32
| | | +--ro linktrace-database
| | | +--ro linktrace-entry* [transaction-id]
| | | +--ro transaction-id -> ../state/transaction-id
| | | +--ro state
| | | | +--ro transaction-id? uint32
| | | | +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
| | | +--ro replies
| | | +--ro reply* [index]
| | | +--ro index -> ../state/index
| | | +--ro state
| | | +--ro index? uint8
| | | +--ro hops? uint8
| | | +--ro destination-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t

```

```

| | | | +--ro relay-action?      ipi-cfm-data-types:cfm_relay_action_t
| | | | +--ro mep-nvo-operational
| | | | | +--ro state
| | | | | +--ro direction?      ipi-cfm-data-types:cfm_mep_direction_t
| | | | | +--ro administrative-state? ipi-cfm-data-types:cfm_mep_state_t
| | | | | +--ro remote-vtep-ip?  inet:ipv4-address
| | | | +--rw ethernet-bandwidth-notification {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--rw config!
| | | | | | +--rw enable-receive      empty
| | | | | | +--rw wait-to-restore-timer? uint32
| | | | | | +--rw peer-port-id?      uint32
| | | | | | +--rw adaptive-bandwidth-disable? empty
| | | | | +--ro state
| | | | | +--ro enable-receive      empty
| | | | | +--ro wait-to-restore-timer? uint32
| | | | | +--ro peer-port-id?      uint32
| | | | | +--ro adaptive-bandwidth-disable? empty
| | | | | +--ro nominal-bandwidth?   string
| | | | | +--ro current-bandwidth?   string
| | | | | +--ro signal-state?        ipi-cfm-data-types:cfm_bn_csf_signal_state_t
| | | | | +--ro messages-received?   yang:zero-based-counter32
| | | | | +--ro messages-dropped?    yang:zero-based-counter32
| | | | | +--ro last-message-received-time? string
| | | | | +--ro message-rx-interval?  uint8
| | | | | +--ro peer-mac-address?     cml-data-types:cml_mac_addr_t
| | | | | +--ro mep-interface-name?   string
| | | | | +--ro wait-to-restore-time-remaining? uint32
| | | | | +--ro peer-port-identifier? uint32
| | | | | +--ro curr-state-elapsed-time? string
| | | | +--rw ethernet-client-signal-fail {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--rw config!
| | | | | | +--rw enable-receive      empty
| | | | | | +--rw wait-to-restore-timer? uint32
| | | | | +--ro state
| | | | | +--ro enable-receive      empty
| | | | | +--ro wait-to-restore-timer? uint32

```

```

| | | | +--ro signal-state?          ipi-cfm-data-types:cfm_bn_csf_signal_state_t
| | | | +--ro messages-received?      yang:zero-based-counter32
| | | | +--ro messages-dropped?       yang:zero-based-counter32
| | | | +--ro last-message-received-time?  string
| | | | +--ro wait-to-restore-time-remaining? uint32
| | | | +--ro message-rx-interval?      uint8
| | | | +--ro peer-mac-address?        cml-data-types:cml_mac_addr_t
| | | | +--ro mep-interface-name?      string
| | | +--rw ethernet-locked-signal {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--rw config!
| | | | | +--rw lock-state      ipi-cfm-data-types:cfm_mep_lck_t
| | | | | +--rw client-md-level? uint8
| | | | | +--rw interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--rw priority?      uint8
| | | | | +--ro state
| | | | | +--ro lock-state      ipi-cfm-data-types:cfm_mep_lck_t
| | | | | +--ro client-md-level? uint8
| | | | | +--ro interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--ro priority?      uint8
| | | | | +--ro receive-status?  boolean
| | | | | +--ro transmit-status? boolean
| | | | | +--ro messages-received? yang:zero-based-counter32
| | | | | +--ro messages-transmitted? yang:zero-based-counter32
| | | +--rw ethernet-alarm-indication-signal {feature-list:HAVE_CFM_Y1731}?
| | | | +--rw config!
| | | | | +--rw enable-status    empty
| | | | | +--rw client-md-level  uint8
| | | | | +--rw interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--ro state
| | | | | +--ro enable-status    empty
| | | | | +--ro client-md-level  uint8
| | | | | +--ro interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--ro is-ais-frame-received? boolean
| | | +--rw y1731-responders {feature-list:HAVE_CFM_Y1731}?
| | | | +--rw config
| | | | | +--rw enable-lm-responder? ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?

```

```

| | | | | +--rw enable-dm-responder? empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | | +--ro state
| | | | | +--ro enable-lm-responder? ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | | +--ro enable-dm-responder? empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | | +--rw ethernet-test-signal {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro state
| | | | | +--ro rmep-id? uint16
| | | | | +--ro peer-mac-address? cml-data-types:cml_mac_addr_t
| | | | | +--ro session-status? ipi-cfm-data-types:cfm_tst_session_status_t
| | | | | +--ro start-time? yang:date-and-time
| | | | | +--ro end-time? yang:date-and-time
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro in-test-frames? yang:zero-based-counter64
| | | | | +--ro in-out-of-order-frames? yang:zero-based-counter64
| | | | | +--ro in-ber-error-frames? yang:zero-based-counter64
| | | | | +--ro last-packet-sequence-number? uint64
| | | | | +--ro out-test-frames? yang:zero-based-counter64
| | | | | +--ro ethernet-loss-measurements {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro current-measurement
| | | | | +--ro state
| | | | | +--ro counters
| | | | | | +--ro near-end-loss? uint32
| | | | | | +--ro far-end-loss? uint32
| | | | | | +--ro near-end-accumulated-loss? uint32
| | | | | | +--ro far-end-accumulated-loss? uint32
| | | | | | +--ro near-end-frame-loss-ratio? uint32
| | | | | | +--ro far-end-frame-loss-ratio? uint32
| | | | | | +--ro near-end-frame-loss-ratio-min? uint32
| | | | | | +--ro far-end-frame-loss-ratio-min? uint32
| | | | | | +--ro near-end-frame-loss-ratio-max? uint32
| | | | | | +--ro far-end-frame-loss-ratio-max? uint32
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_lm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro start-time? yang:date-and-time

```

```

| | | | | +--ro session-status? ipi-cfm-data-types:cfm_pm_session_status_t
| | | | | +--ro historic-measurements
| | | | | +--ro historic-measurement* [measurement-id]
| | | | | +--ro measurement-id -> ../state/measurement-id
| | | | | +--ro state
| | | | | +--ro counters
| | | | | | +--ro near-end-loss? uint32
| | | | | | +--ro far-end-loss? uint32
| | | | | | +--ro near-end-accumulated-loss? uint32
| | | | | | +--ro far-end-accumulated-loss? uint32
| | | | | | +--ro near-end-frame-loss-ratio? uint32
| | | | | | +--ro far-end-frame-loss-ratio? uint32
| | | | | | +--ro near-end-frame-loss-ratio-min? uint32
| | | | | | +--ro far-end-frame-loss-ratio-min? uint32
| | | | | | +--ro near-end-frame-loss-ratio-max? uint32
| | | | | | +--ro far-end-frame-loss-ratio-max? uint32
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_lm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro end-time? yang:date-and-time
| | | +--ro ethernet-delay-measurements {feature-list:Y1731_HW_OFFLOAD}?
| | | +--ro current-measurement
| | | | +--ro state
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_dm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro start-time? yang:date-and-time
| | | | | +--ro session-status? ipi-cfm-data-types:cfm_pm_session_status_t
| | | | | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
| | | | | | +--ro min? yang:gauge32
| | | | | | +--ro max? yang:gauge32
| | | | | | +--ro avg? yang:gauge32
| | | | | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro min? yang:gauge32

```

```

| | | | | +--ro max? yang:gauge32
| | | | | +--ro avg? yang:gauge32
| | | | | +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number
| | | | | +--ro state
| | | | | +--ro bin-number? uint8
| | | | | +--ro threshold? uint32
| | | | | +--ro counter? yang:gauge32
| | | | | +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro inter-frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number
| | | | | +--ro state
| | | | | +--ro bin-number? uint8
| | | | | +--ro threshold? uint32
| | | | | +--ro counter? yang:gauge32
| | | | +--ro historic-measurements
| | | | +--ro historic-measurement* [measurement-id]
| | | | +--ro measurement-id -> ../state/measurement-id
| | | | +--ro state
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_dm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro end-time? yang:date-and-time
| | | | | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
| | | | | | +--ro min? yang:gauge32
| | | | | | +--ro max? yang:gauge32
| | | | | | +--ro avg? yang:gauge32
| | | | | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro min? yang:gauge32
| | | | | +--ro max? yang:gauge32
| | | | | +--ro avg? yang:gauge32
| | | | +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number

```

```

| | | | +--ro state
| | | | +--ro bin-number? uint8
| | | | +--ro threshold? uint32
| | | | +--ro counter? yang:gauge32
| | | +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | +--ro inter-frame-delay-bin* [bin-number]
| | | +--ro bin-number -> ../state/bin-number
| | | +--ro state
| | | +--ro bin-number? uint8
| | | +--ro threshold? uint32
| | | +--ro counter? yang:gauge32
| | +--ro default-mips
| | | +--ro default-mip* [interface-name]
| | | +--ro interface-name -> ../state/interface-name
| | | +--ro state
| | | +--ro interface-name? string
| | | +--ro vlan-id? uint16
| | | +--ro mac-address? cml-data-types:cml_mac_addr_t
| | +--ro ma-nvo-operational
| | +--ro state
| | +--ro type? ipi-cfm-data-types:cfm_ma_type_t
| | +--ro vnid? uint32
| | +--ro vlan-id? uint16
| +--ro md-nvo-operational
| +--ro state
| +--ro type? ipi-cfm-data-types:cfm_md_type_t
| +--ro level? uint8
| +--ro mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t
+--rw ethernet-test-signal-profiles {feature-list:Y1731_HW_OFFLOAD}?
| +--rw ethernet-test-signal-profile* [profile-name]
| +--rw profile-name -> ../config/profile-name
| +--rw config
| | +--rw profile-name? string
| | +--rw mode? ipi-cfm-data-types:cfm_test_mode_t
| | +--rw test-type? ipi-cfm-data-types:cfm_test_type_t
| | +--rw frame-size? ipi-cfm-data-types:cfm_test_framesize_type_t

```



```

| | +--rw pattern-type? ipi-cfm-data-types:cfm_test_pattern_type_t
| | +--ro state
| | +--ro profile-name? string
| | +--ro mode? ipi-cfm-data-types:cfm_test_mode_t
| | +--ro test-type? ipi-cfm-data-types:cfm_test_type_t
| | +--ro frame-size? ipi-cfm-data-types:cfm_test_framesize_type_t
| | +--ro pattern-type? ipi-cfm-data-types:cfm_test_pattern_type_t
| +--rw excess-information-rate
| | +--rw config {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
| | | +--rw eir? uint64
| | | +--rw eir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--rw eir-cos? uint8
| | | +--rw eir-dei? uint8
| | +--ro state {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
| | | +--ro eir? uint64
| | | +--ro eir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--ro eir-cos? uint8
| | | +--ro eir-dei? uint8
| +--rw committed-information-rate
| | +--rw config {feature-list:Y1731_HW_OFFLOAD}?
| | | +--rw cir? uint64
| | | +--rw cir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--rw cir-cos? uint8
| | | +--rw cir-dei? uint8
| | +--ro state
| | | +--ro cir? uint64
| | | +--ro cir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--ro cir-cos? uint8
| | | +--ro cir-dei? uint8
+--rw ethernet-loss-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +--rw ethernet-loss-measurement-profile* [profile-name]
| +--rw profile-name -> ../config/profile-name
| +--rw config
| | +--rw profile-name? string
| | +--rw measurement-type? ipi-cfm-data-types:cfm_lm_measurement_type_t
| | +--rw measurement-interval? uint32

```

```

| | +--rw message-period?      ipi-cfm-data-types:cfm_msg_interval_t
| | +--rw intervals-stored?    uint16
| +--ro state
|   +--ro profile-name?       string
|   +--ro measurement-type?    ipi-cfm-data-types:cfm_lm_measurement_type_t
|   +--ro measurement-interval? uint32
|   +--ro message-period?      ipi-cfm-data-types:cfm_msg_interval_t
|   +--ro intervals-stored?    uint16
+--rw ethernet-delay-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  +--rw ethernet-delay-measurement-profile* [profile-name]
    +--rw profile-name    -> ../config/profile-name
    +--rw config
      | +--rw profile-name?      string
      | +--rw measurement-interval? uint16
      | +--rw message-period?    ipi-cfm-data-types:cfm_msg_interval_t
      | +--rw intervals-stored?  uint16
      | +--rw bins-per-fd-interval? uint8
      | +--rw bins-per-ifdv-interval? uint8
    +--ro state
      | +--ro profile-name?      string
      | +--ro measurement-interval? uint16
      | +--ro message-period?    ipi-cfm-data-types:cfm_msg_interval_t
      | +--ro intervals-stored?  uint16
      | +--ro bins-per-fd-interval? uint8
      | +--ro bins-per-ifdv-interval? uint8
    +--rw bin-thresholds
      +--rw bin-threshold* [type bin-number]
        +--rw type      -> ../config/type
        +--rw bin-number -> ../config/bin-number
        +--rw config
          | +--rw type?      ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
          | +--rw bin-number? uint8
          | +--rw threshold  uint32
        +--ro state
          +--ro type?      ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
          +--ro bin-number? uint8

```

+--ro threshold uint32

rpcs:

+---x cfm-l2-abort-eth-test-signal {feature-list:Y1731_HW_OFFLOAD}?

| +---w input

| +---w mep-id uint16

| +---w ma-name string

| +---w domain-name string

+---x cfm-l2-eth-test-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?

| +---w input

| +---w test-target ipi-cfm-data-types:cfm_rmep_type_t

| +---w mep-id uint16

| +---w ma-name string

| +---w md-name string

| +---w profile-name string

| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t

| +---w start-time uint32

| +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t

| +---w stop-time uint32

+---x cfm-l2-eth-test-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?

| +---w input

| +---w test-target ipi-cfm-data-types:cfm_rmep_type_t

| +---w mep-id uint16

| +---w ma-name string

| +---w md-name string

| +---w profile-name string

| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t

| +---w start-time string

| +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t

| +---w stop-time uint32

+---x cfm-l2-eth-test-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?

| +---w input

| +---w test-target ipi-cfm-data-types:cfm_rmep_type_t

| +---w mep-id uint16

| +---w ma-name string

| +---w md-name string

```
| +---w profile-name    string
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      uint32
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time       string
+---x cfm-l2-eth-test-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w test-target     ipi-cfm-data-types:cfm_rmep_type_t
| +---w mep-id          uint16
| +---w ma-name         string
| +---w md-name         string
| +---w profile-name    string
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time       string
+---x cfm-l2-eth-lm-start-proactive {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
```

```

| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type  ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time      string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time      string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string

```

```

| +---w rmep-id          ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type  ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      string
| +---w stop-time-type   ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time       string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w start-time     string
|   +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
|   +---w stop-time      string
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time     string
|   +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t

```

```

| +---w start-time-type   ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time        string
| +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time         string
| +---w repetition-period  yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name           string
| +---w ma-name           string
| +---w mep-id            uint16
| +---w profile-name      string
| +---w rmep-id           ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type   ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time        string
| +---w stop-time-type    ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time         string
| +---w repetition-period  yang:timeticks
+---x cfm-l2-abort-eth-lm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name   string
| +---w ma-name   string
| +---w mep-id    uint16
+---x cfm-l2-clear-eth-lm-history-stats {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name   string
| +---w ma-name   string
| +---w mep-id    uint16
+---x cfm-l2-eth-dm-start-proactive {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t

```

```
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```

```
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
|   +---w profile-name     string
|   +---w rmep-id          ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type   ipi-cfm-data-types:cfm_start_time_immediate_t
|   +---w stop-time-type    ipi-cfm-data-types:cfm_stop_time_none_t
|   +---w repetition-period yang:timeticks
```

```
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```

```
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
|   +---w profile-name     string
|   +---w rmep-id          ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type   ipi-cfm-data-types:cfm_start_time_immediate_t
|   +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
|   +---w stop-time        string
|   +---w repetition-period yang:timeticks
```

```
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```

```
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
|   +---w profile-name     string
|   +---w rmep-id          ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type   ipi-cfm-data-types:cfm_start_time_immediate_t
|   +---w stop-time-type    ipi-cfm-data-types:cfm_absolute_time_t
|   +---w stop-time        string
|   +---w repetition-period yang:timeticks
```

```
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```

```
| +---w input
```

```

| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?

```

```

| +---w input
|   +---w md-name      string
|   +---w ma-name      string
|   +---w mep-id       uint16
|   +---w profile-name  string
|   +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time    string
|   +---w stop-time-type ipi-cfm-data-types:cfm_stop_time_none_t
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name      string
|   +---w ma-name      string
|   +---w mep-id       uint16
|   +---w profile-name  string
|   +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time    string
|   +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w stop-time     string
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name      string
|   +---w ma-name      string
|   +---w mep-id       uint16
|   +---w profile-name  string
|   +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time    string
|   +---w stop-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w stop-time     string
|   +---w repetition-period yang:timeticks

```

```

+---x cfm-l2-abort-eth-dm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name   string
|   +---w ma-name   string
|   +---w mep-id    uint16
+---x cfm-l2-clear-eth-dm-history-stats {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name   string
|   +---w ma-name   string
|   +---w mep-id    uint16
+---x cfm-l2-clear-eth-csf-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w mep-id    uint16
|   +---w md-name   string
|   +---w ma-name   string
+---x cfm-l2-clear-eth-bn-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w mep-id    uint16
|   +---w md-name   string
|   +---w ma-name   string
+---x cfm-l2-clear-eth-lck-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w mep-id    uint16
|   +---w md-name   string
|   +---w ma-name   string
+---x cfm-l2-clear-eth-test-signal-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name   string
|   +---w ma-name   string
|   +---w mep-id    uint16
|   +---w stats-type ipi-cfm-data-types:cfm_test_stats_type_t
+---x cfm-l2-clear-ethernet-remote-meps {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
|   +---w domain-name string
+---x cfm-clear-all-mep-stats {feature-list:HAVE_CFM}?

```

```

+---x cfm-l2-clear-mep-stats {feature-list:HAVE_CFM}?
| +---w input
|   +---w domain-name    string
|   +---w mep-id         uint16
|   +---w ma-name        string
+---x cfm-snmp-restart {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
+---x cfm-terminal-debug-on {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
|   +---w terminal-debug-options  ipi-cfm-data-types:cfm_debug_t
+---x cfm-terminal-debug-off {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
|   +---w terminal-debug-options  ipi-cfm-data-types:cfm_debug_t
+---x cfm-l2-test-loopback {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
|   +---w mac-address      ipi-cfm-data-types:cfm_lb_mac_addr_t
+---x cfm-l2-test-linktrace {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
| | +---w md-name          string
| | +---w ma-name          string
| | +---w mep-id           uint16
| | +---w mac-address      ipi-cfm-data-types:cfm_lb_mac_addr_t
| +--ro output
|   +--ro transaction-id   uint32
+---x cfm-l2-clear-linktrace-cache {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?

```

notifications:

```

+---n cfm-l2-mep-ccm-highest-fault-info {feature-list:HAVE_CFM}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro mep-id?            uint16
| +--ro ma-name?           string
| +--ro md-name?           string
| +--ro highest-priority-defect-found? ipi-cfm-data-types:cfm_mep_highest_fault_defect_t

```

```
+---n cfm-l2-ethernet-loopback-test-completed {feature-list:HAVE_CFM}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro mep-id?            uint16
| +--ro ma-name?           string
| +--ro md-name?           string
| +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
+---n cfm-l2-ethernet-linktrace-test-completed {feature-list:HAVE_CFM}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro transaction-id?    uint32
| +--ro mep-id?            uint16
| +--ro ma-name?           string
| +--ro md-name?           string
| +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
+---n cfm-mep-evpn-ccm-defect-condition
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro remote-mep-id?     uint32
| +--ro mep-id?            uint16
| +--ro ma-name?           string
| +--ro md-name?           string
| +--ro last-good-sequence-number? uint32
| +--ro last-flapped-time?  yang:date-and-time
| +--ro flow-state?         ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
| +--ro last-good-flow-id?  uint32
+---n cfm-mep-evpn-ccm-defect-cleared
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro remote-mep-id?     uint32
| +--ro mep-id?            uint16
| +--ro ma-name?           string
| +--ro md-name?           string
| +--ro first-good-sequence-number? uint32
| +--ro last-recovered-time? yang:date-and-time
| +--ro flow-state?         ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
```

```

| +--ro last-recovered-flow-id?   uint32
+---n cfm-eth-csf-los-set {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro mep-id?      uint16
| +--ro ma-name?     string
| +--ro md-name?     string
| +--ro signal-state? ipi-cfm-data-types:cfm_bn_csf_signal_state_t
+---n cfm-eth-csf-los-reset {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro mep-id?      uint16
| +--ro ma-name?     string
| +--ro md-name?     string
| +--ro signal-state? ipi-cfm-data-types:cfm_bn_csf_signal_state_t
+---n cfm-eth-bnm-bw-update {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro mep-id?        uint16
  +--ro ma-name?       string
  +--ro md-name?       string
  +--ro nominal-bandwidth? string
  +--ro current-bandwidth? string

```

ipi-cross-connect

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw cross-connect
  +--rw config
    | +--rw xc-name?      -> /ipi-network-instance:network-instances/network-instance/instance-name
    | +--rw description?  cml-data-types:cml_line_t
    | +--rw admin-disable? empty
  +--ro state
    | +--ro xc-name?      -> /ipi-network-instance:network-instances/network-instance/instance-name

```

```

| +--ro description?      cml-data-types:cml_line_t
| +--ro admin-disable?    empty
| +--ro operational-state? ipi-cross-connect-types:xc_oper_status_t
+--rw cross-connect-interfaces
  +--rw cross-connect-interface* [endpoint-if] {feature-list:NOT_HAVE_CUSTOM1_SUBINTERFACE}?
    +--rw endpoint-if  -> ../config/endpoint-if
    +--rw config
      | +--rw endpoint-if?    -> /ipi-interface:interfaces/interface/name
      | +--rw endpoint-if-bkp? string {feature-list:HAVE_DUNE}?
      | +--rw evc-name?      string {feature-list:HAVE_DUNE}?
    +--ro state
      +--ro endpoint-if?    -> /ipi-interface:interfaces/interface/name
      +--ro endpoint-if-bkp? string {feature-list:HAVE_DUNE}?
      +--ro evc-name?      string {feature-list:HAVE_DUNE}?

```

ipi-crypto

```

+--rw crypto
  +--rw global
    +--rw config
      | +--rw key-encryption? ipi-crypto-types:crypto_cipher_types_t
    +--ro state
      +--ro key-encryption? ipi-crypto-types:crypto_cipher_types_t

```

rpcs:

```

+---x crypto-rsa-key-gen {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w ipv4-addr  inet:ipv4-address
+---x crypto-rsa-load-cert {feature-list:HAVE_HOSTPD}?
  +---w input
    +---w source-interface  string
    +---w url               inet:uri

```

ipi-delay-profile

```
+--rw delay-profiles
  +--rw delay-profile* [profile-type]
    | +--rw profile-type          -> ../config/profile-type
    | +--rw config
    | | +--rw profile-type? ipi-delay-profile-types:delay_profile_type_t
    | | +--ro state
    | | +--ro profile-type? ipi-delay-profile-types:delay_profile_type_t
    | | +--rw profile-parameters
    | | +--rw config
    | | | +--rw mode?          ipi-delay-profile-types:delay_profile_measurement_mode_t
    | | | +--rw sender-port?   uint16
    | | | +--rw burst-interval? uint16
    | | | +--rw burst-count?   uint8
    | | | +--rw interval?     uint16
    | | | +--ro state
    | | | +--ro mode?          ipi-delay-profile-types:delay_profile_measurement_mode_t
    | | | +--ro sender-port?   uint16
    | | | +--ro burst-interval? uint16
    | | | +--ro burst-count?   uint8
    | | | +--ro interval?     uint16
    | | +--rw periodic-advertisement
    | | | +--rw config
    | | | | +--rw disable?      empty
    | | | | +--rw threshold?    uint8
    | | | | +--rw minimum-change? uint16
    | | | | +--ro state
    | | | | +--ro disable?      empty
    | | | | +--ro threshold?    uint8
    | | | | +--ro minimum-change? uint16
    | | +--rw accelerated-advertisement
    | | | +--rw config!
    | | | | +--rw enable        empty
    | | | | +--rw threshold?    uint8
    | | | | +--rw minimum-change? uint16
```



```

| | +--ro state
| |   +--ro enable      empty
| |   +--ro threshold?  uint8
| |   +--ro minimum-change? uint16
| +--rw notifications {feature-list:HAVE_TE}?
|   +--rw config!
|     | +--rw enabled      empty
|     | +--rw threshold?  uint8
|     | +--rw minimum-change? uint16
|     +--ro state
|       +--ro enabled      empty
|       +--ro threshold?  uint8
|       +--ro minimum-change? uint16
+--rw delay-profile-clients
  +--rw config!
  | +--rw delay-profile-enable  empty
  | +--rw burst-interval?      uint16
  | +--rw burst-count?        uint8
  +--ro state
    +--ro delay-profile-enable  empty
    +--ro burst-interval?      uint16
    +--ro burst-count?        uint8

```

ipi-dhcp

```

+--rw dhcp
  +--rw global
  | +--rw config

```

```

| | +--rw disable-dhcp-feature? empty
| +--ro state
|   +--ro disable-dhcp-feature? empty
+--rw option82-templates
| +--rw option82-template* [template-name]
|   +--rw template-name -> ../config/template-name
|   +--rw config
|     | +--rw template-name? string
|     | +--rw policy-action? ipi-dhcp-types:dhcp_option82_template_policy_t
|     | +--rw circuit-id? ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|     | +--rw remote-id? ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
|     +--ro state
|       +--ro template-name? string
|       +--ro policy-action? ipi-dhcp-types:dhcp_option82_template_policy_t
|       +--ro circuit-id? ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|       +--ro remote-id? ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
+--rw relay
| +--rw global
| | +--rw config
| | | +--rw disable-dhcpv4-relay? empty
| | | +--rw disable-dhcpv6-relay? empty
| | +--ro state
| |   +--ro disable-dhcpv4-relay? empty
| |   +--ro disable-dhcpv6-relay? empty
+--rw interfaces
| | +--rw interface* [name]
| |   +--rw name -> ../config/name
| |   +--rw config
| |     | +--rw name? -> /ipi-interface:interfaces/interface/name
| |     | +--rw ipv4-relay-interface? empty
| |     | +--rw gi-addr? inet:ipv4-address
| |     | +--rw src-ip-addr? empty
| |     | +--rw ipv4-uplink-interface? empty
| |     | +--rw ipv4-group-name? string
| |     | +--rw ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| |     | +--rw ipv6-gi-addr? inet:ipv6-address

```

```

| | | +--rw ipv6-src-addr?      empty
| | | +--rw ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
| | | +--rw ipv6-group-name?    string
| | +--ro state
| |   +--ro name?               -> /ipi-interface:interfaces/interface/name
| |   +--ro ipv4-relay-interface? empty
| |   +--ro gi-addr?            inet:ipv4-address
| |   +--ro src-ip-addr?        empty
| |   +--ro ipv4-uplink-interface? empty
| |   +--ro ipv4-group-name?    string
| |   +--ro ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| |   +--ro ipv6-gi-addr?       inet:ipv6-address
| |   +--ro ipv6-src-addr?      empty
| |   +--ro ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
| |   +--ro ipv6-group-name?    string
| +--rw vrfs
|   +--rw vrf* [vrf-name]
|     +--rw vrf-name           -> ../config/vrf-name
|     +--rw config
|       | +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
|       | +--rw link-selection-source-ip?    inet:ipv4-address
|       | +--rw enable-option82?            empty
|       | +--rw enable-option82-always-on?   empty
|       | +--rw enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?
|       | +--rw enable-dhcpv6-duplicate-clients? empty {feature-list:HAVE_IPV6}?
|       | +--rw remote-id?                  ipi-dhcp-relay-types:dhcp_remote_id_t
|       | +--rw ipv4-subscriber-id?          string
|       | +--rw subscriber-id?              string
|       | +--rw option82-template-name?      -> /dhcp/option82-templates/option82-template/config/template-name
|       +--ro state
|       | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
|       | +--ro link-selection-source-ip?    inet:ipv4-address
|       | +--ro enable-option82?            empty
|       | +--ro enable-option82-always-on?   empty
|       | +--ro enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?

```

```

|   | +--ro enable-dhcpv6-duplicate-clients?  empty {feature-list:HAVE_IPV6}?
|   | +--ro remote-id?                        ipi-dhcp-relay-types:dhcp_remote_id_t
|   | +--ro ipv4-subscriber-id?               string
|   | +--ro subscriber-id?                   string
|   | +--ro option82-template-name?           -> /dhcp/option82-templates/option82-template/config/template-name
|   | +--ro bogus-giaddr-drops?              uint32
|   | +--ro client-packets-relayed?          uint32
|   | +--ro server-packet-errors?            uint32
|   | +--ro server-packets-relayed?          uint32
|   | +--ro client-packet-errors?            uint32
|   | +--ro agent-option-errors?             uint32
|   | +--ro corrupt-agent-options?           uint32
|   | +--ro missing-agent-option?            uint32
|   | +--ro bad-circuit-id?                  uint32
|   | +--ro missing-circuit-id?              uint32
|   | +--ro circuit-id?                      string
|   +--rw ipv4-vpn-links
|   | +--rw ipv4-vpn-link* [interface-type]
|   |   +--rw interface-type  -> ../config/interface-type
|   |   +--rw config
|   |     | +--rw interface-type?  ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |     | +--rw interface-direction  ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   |     +--ro state
|   |       +--ro interface-type?  ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |       +--ro interface-direction  ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   +--rw ipv6-vpn-links
|   | +--rw ipv6-vpn-link* [interface-type-v6] {feature-list:HAVE_IPV6}?
|   |   +--rw interface-type-v6  -> ../config/interface-type-v6
|   |   +--rw config
|   |     | +--rw interface-type-v6?  ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |     | +--rw interface-direction-v6  ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   |     +--ro state
|   |       +--ro interface-type-v6?  ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |       +--ro interface-direction-v6  ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   +--ro dhcpv6-delegated-prefixes* [interface-name] {feature-list:HAVE_IPV6}?
|   | +--ro interface-name  -> ../state/interface-name

```

```

|   | +--ro state
|   |   +--ro interface-name?    string
|   |   +--ro next-hop?          inet:ipv6-address
|   |   +--ro prefix?            cml-data-types:cml_ipv6_prefix_t
|   |   +--ro preferred-lifetime? uint32
|   |   +--ro maximum-lifetime?  uint32
|   |   +--ro prefix-start-time?  yang:date-and-time
|   |   +--ro prefix-expiry-time? yang:date-and-time
|   |   +--ro state?             ipi-dhcp-relay-types:dhcp6_pd_route_state_t
|   +--rw ipv4-dhcp-servers
|   |   +--rw ipv4-dhcp-server* [ip-address]
|   |   +--rw ip-address  -> ../config/ip-address
|   |   +--rw config
|   |   |   +--rw ip-address?          inet:ipv4-address
|   |   |   +--rw dhcpv4-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
|   |   |   config/vrf-name
|   |   |   +--ro state
|   |   |   |   +--ro ip-address?          inet:ipv4-address
|   |   |   |   +--ro dhcpv4-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
|   |   |   |   config/vrf-name
|   |   +--rw ipv4-dhcp-servers {feature-list:HAVE_IPV6}?
|   |   |   +--rw ipv6-dhcp-server* [ipv6-address]
|   |   |   +--rw ipv6-address  -> ../config/ipv6-address
|   |   |   +--rw config
|   |   |   |   +--rw ipv6-address?          inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |   |   +--rw dhcpv6-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
|   |   |   |   config/vrf-name
|   |   |   +--ro state
|   |   |   |   +--ro ipv6-address?          inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |   |   +--ro dhcpv6-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
|   |   |   |   config/vrf-name
|   |   +--rw dhcp-groups
|   |   |   +--rw dhcp-group* [group-name]
|   |   |   +--rw group-name  -> ../config/group-name
|   |   |   +--rw config
|   |   |   |   +--rw group-name?  string
|   |   |   |   +--rw server*      inet:ipv4-address
|   |   +--ro state

```

```

|   |   +--ro group-name?  string
|   |   +--ro server*      inet:ipv4-address
|   +--rw dhcpv6-groups {feature-list:HAVE_IPV6}?
|       +--rw dhcpv6-group* [group6-name]
|           +--rw group6-name  -> ../config/group6-name
|           +--rw config
|               | +--rw group6-name?  string
|               | +--rw server*      inet:ipv6-address
|               +--ro state
|                   +--ro group6-name?  string
|                   +--ro server*      inet:ipv6-address
+--rw client
| +--rw interfaces
|   +--rw interface* [name]
|       +--rw name          -> ../config/name
|       +--rw config
|           | +--rw name?          -> /ipi-interface:interfaces/interface/name
|           | +--rw request-ipv4-dns?      empty
|           | +--rw request-log-server?    empty {feature-list:HAVE_SYSLOG}?
|           | +--rw request-host-name?     empty
|           | +--rw request-ntp-server?    empty {feature-list:HAVE_HOSTP_NTP}?
|           | +--rw request-ipv6-dns?     empty {feature-list:HAVE_IPV6}?
|           | +--rw request-ipv6-domain-list?  empty {feature-list:HAVE_IPV6}?
|           | +--rw request-ipv6-ntp-server?  empty {feature-list:HAVE_IPV6}?
|           | +--rw request-ipv6-rapid-commit? empty {feature-list:HAVE_IPV6}?
|           | +--rw request-ipv6-vendor-opts? empty {feature-list:HAVE_IPV6}?
|           | +--rw ipv6-information-request? empty {feature-list:HAVE_IPV6}?
|           | +--rw ipv6-dad-wait-time?     uint16 {feature-list:HAVE_IPV6}?
|           | +--rw ipv6-client-duid-type?  cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
|           | +--rw ipv6-max-delegated-prefix? uint16 {feature-list:HAVE_IPV6}?
|           | +--rw request-ipv6-prefix?    string {feature-list:HAVE_IPV6}?
|           +--ro state
|               | +--ro name?          -> /ipi-interface:interfaces/interface/name
|               | +--ro request-ipv4-dns?      empty
|               | +--ro request-log-server?    empty {feature-list:HAVE_SYSLOG}?
|               | +--ro request-host-name?     empty

```

```

| | +--ro request-ntp-server?      empty {feature-list:HAVE_HOSTP_NTP}?
| | +--ro request-ipv6-dns?       empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-domain-list? empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-ntp-server? empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-rapid-commit? empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-vendor-opts? empty {feature-list:HAVE_IPV6}?
| | +--ro ipv6-information-request? empty {feature-list:HAVE_IPV6}?
| | +--ro ipv6-dad-wait-time?      uint16 {feature-list:HAVE_IPV6}?
| | +--ro ipv6-client-duid-type?   cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
| | +--ro ipv6-max-delegated-prefix? uint16 {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-prefix?     string {feature-list:HAVE_IPV6}?
| +--rw prefix-ipv6-addresses {feature-list:HAVE_IPV6}?
| | +--rw prefix-ipv6-address* [prefix-name suffix-ipv6-addr]
| |   +--rw prefix-name      -> ../config/prefix-name
| |   +--rw suffix-ipv6-addr -> ../config/suffix-ipv6-addr
| |   +--rw config
| |     | +--rw prefix-name?    string
| |     | +--rw suffix-ipv6-addr? string
| |     +--ro state
| |       +--ro prefix-name?    string
| |       +--ro suffix-ipv6-addr? string
| +--ro learned-prefixes* [learnt-prefix] {feature-list:HAVE_IPV6}?
|   +--ro learnt-prefix  cml-data-types:cml_ipv6_prefix_t
|   +--ro state
|     +--ro learnt-prefix?    cml-data-types:cml_ipv6_prefix_t
|     +--ro max-lifetime?     uint32
|     +--ro preferred-lifetime? uint32
+--rw server
| +--rw interfaces
| | +--rw interface* [name]
| |   +--rw name      -> ../config/name
| |   +--rw config
| |     | +--rw name?          -> /ipi-interface:interfaces/interface/name
| |     | +--rw enable-ipv4-server? empty
| |     | +--rw enable-ipv6-server? empty {feature-list:HAVE_IPV6}?
| |     +--ro state

```

```

| |   +--ro name?          -> /ipi-interface:interfaces/interface/name
| |   +--ro enable-ipv4-server?  empty
| |   +--ro enable-ipv6-server?  empty {feature-list:HAVE_IPV6}?
| +--rw vrfs
|   +--rw vrf* [vrf-name]
|     +--rw vrf-name      -> ../config/vrf-name
|     +--rw config
|       | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|       | +--rw rapid-commit?    empty
|       | +--rw preference?      empty
|       | +--rw max-lease-time?  int32
|       | +--rw default-lease-time? int32
|       | +--ro state
|       | +--ro vrf-name?        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|       | +--ro rapid-commit?    empty
|       | +--ro preference?      empty
|       | +--ro max-lease-time?  int32
|       | +--ro default-lease-time? int32
|       +--rw dhcp-pools
|         +--rw dhcp-pool* [pool-name]
|           +--rw pool-name      -> ../config/pool-name
|           +--rw config
|             | +--rw pool-name?      string
|             | +--rw host-name?      string
|             | +--rw routers?        inet:ipv4-address
|             | +--rw ntp-server*      inet:ipv4-address
|             | +--rw boot-file?       string
|             | +--rw tftp-server?     inet:ipv4-address
|             | +--rw log-server*      inet:ipv4-address
|             | +--rw dns-server*      inet:ipv4-address
|             | +--rw network?         inet:ipv4-address
|             | +--rw netmask?         inet:ipv4-address
|             | +--rw low-address-in-range? inet:ipv4-address
|             | +--rw high-address-in-range? inet:ipv4-address
|             +--ro state
|             +--ro pool-name?        string

```

```

|   |   +--ro host-name?      string
|   |   +--ro routers?       inet:ipv4-address
|   |   +--ro ntp-server*     inet:ipv4-address
|   |   +--ro boot-file?      string
|   |   +--ro tftp-server?     inet:ipv4-address
|   |   +--ro log-server*     inet:ipv4-address
|   |   +--ro dns-server*     inet:ipv4-address
|   |   +--ro network?        inet:ipv4-address
|   |   +--ro netmask?        inet:ipv4-address
|   |   +--ro low-address-in-range?  inet:ipv4-address
|   |   +--ro high-address-in-range? inet:ipv4-address
|   +--rw dhcp6-pools {feature-list:HAVE_IPV6}?
|       +--rw dhcp6-pool* [pool6-name]
|           +--rw pool6-name  -> ../config/pool6-name
|           +--rw config
|               | +--rw pool6-name?      string
|               | +--rw domain-name?     string
|               | +--rw vendor-options?   cml-data-types:cml_line_t
|               | +--rw ntp-server*       inet:ipv6-address
|               | +--rw dns-server*       inet:ipv6-address
|               | +--rw ipv6-network?     inet:ipv6-address
|               | +--rw ipv6-netmask?     uint8
|               | +--rw low-address-in-range?  inet:ipv6-address
|               | +--rw high-address-in-range? inet:ipv6-address
|               | +--rw temporary-address?   inet:ipv6-address
|               | +--rw ipv6-prefix-high-address? inet:ipv6-address
|               | +--rw ipv6-prefix-low-address? inet:ipv6-address
|               | +--rw ipv6-prefix-netmask?  uint8
|           +--ro state
|               +--ro pool6-name?      string
|               +--ro domain-name?     string
|               +--ro vendor-options?   cml-data-types:cml_line_t
|               +--ro ntp-server*       inet:ipv6-address
|               +--ro dns-server*       inet:ipv6-address
|               +--ro ipv6-network?     inet:ipv6-address
|               +--ro ipv6-netmask?     uint8

```

```

|         +--ro low-address-in-range?   inet:ipv6-address
|         +--ro high-address-in-range?  inet:ipv6-address
|         +--ro temporary-address?      inet:ipv6-address
|         +--ro ipv6-prefix-high-address? inet:ipv6-address
|         +--ro ipv6-prefix-low-address? inet:ipv6-address
|         +--ro ipv6-prefix-netmask?    uint8
+--rw snooping
  +--rw debug
    | +--rw config
    | | +--rw options? ipi-dhcp-snooping-types:dhcp_snooping_debug_t
    | +--ro state
    |   +--ro options? ipi-dhcp-snooping-types:dhcp_snooping_debug_t
    |   +--ro terminal-debug-status? ipi-dhcp-snooping-types:dhcp_snooping_debug_t
  +--rw snooping-bridges
    | +--rw snooping-bridge* [bridge-id]
    |   +--rw bridge-id          -> ../config/bridge-id
    |   +--rw config!
    |   | +--rw snooping-enable   empty
    |   | +--rw bridge-id?       -> /ipi-network-instance:network-instances/network-instance/instance-name
    |   | +--rw verify-mac-address? empty
    |   | +--rw option-82-enable? empty
    |   | +--rw write-delay?     uint32
    |   | +--rw strict-validation? empty
    |   +--ro state
    |   | +--ro snooping-enable   empty
    |   | +--ro bridge-id?       -> /ipi-network-instance:network-instances/network-instance/instance-name
    |   | +--ro verify-mac-address? empty
    |   | +--ro option-82-enable? empty
    |   | +--ro write-delay?     uint32
    |   | +--ro strict-validation? empty
    |   +--rw arp-inspection
    |   | +--rw config!
    |   | | +--rw enable         empty
    |   | | +--rw validate-mac? ipi-dhcp-snooping-types:dhcp_snooping_validation_t
    |   | | +--rw vlan-range?   cml-data-types:cml_range_t
    |   | +--ro state

```

```

| | +--ro enable      empty
| | +--ro validate-mac? ipi-dhcp-snooping-types:dhcp_snooping_validation_t
| | +--ro vlan-range?  cml-data-types:cml_range_t
| | +--ro counters
| |   +--ro forwarded? yang:counter32
| |   +--ro dropped?   yang:counter32
| +--rw vlan-option82-template-mappings
| | +--rw vlan-option82-template-mapping* [vlan-range]
| | +--rw vlan-range  -> ../config/vlan-range
| | +--rw config!
| | | +--rw option82-template-name? string
| | | +--rw vlan-range?             cml-data-types:cml_range_t
| | +--ro state
| |   +--ro option82-template-name? string
| |   +--ro vlan-range?             cml-data-types:cml_range_t
| +--rw vlans
| | +--rw vlan* [vlan-id]
| |   +--rw vlan-id      -> ../config/vlan-id
| |   +--rw config
| | | +--rw vlan-id? uint16
| | +--ro state
| | | +--ro vlan-id?  uint16
| | | +--ro statistics
| | |   +--ro static-entries-ipv4? yang:counter32
| | |   +--ro dynamic-entries-ipv4? yang:counter32
| | |   +--ro static-entries-ipv6? yang:counter32 {feature-list:HAVE_IPV6}?
| | |   +--ro dynamic-entries-ipv6? yang:counter32 {feature-list:HAVE_IPV6}?
| | +--rw mac-addresses-ipv4
| | | +--rw mac-address-ipv4* [mac-address]
| | |   +--rw mac-address  -> ../config/mac-address
| | |   +--rw config
| | | | +--rw mac-address? cml-data-types:cml_mac_addr_t
| | | | +--rw ipv4-address inet:ipv4-address
| | | | +--rw if-name      -> /ipi-interface:interfaces/interface/name
| | | +--ro state
| | |   +--ro mac-address? cml-data-types:cml_mac_addr_t

```

```

|      |      +--ro ipv4-address   inet:ipv4-address
|      |      +--ro if-name       -> /ipi-interface:interfaces/interface/name
|      +--rw mac-addresses-ipv6 {feature-list:HAVE_IPV6}?
|      | +--rw mac-address-ipv6* [mac-address]
|      | +--rw mac-address   -> ../config/mac-address
|      | +--rw config
|      | | +--rw mac-address?   cml-data-types:cml_mac_addr_t
|      | | +--rw ipv6-address   inet:ipv6-address
|      | | +--rw if-name       -> /ipi-interface:interfaces/interface/name
|      | +--ro state
|      | +--ro mac-address?   cml-data-types:cml_mac_addr_t
|      | +--ro ipv6-address   inet:ipv6-address
|      | +--ro if-name       -> /ipi-interface:interfaces/interface/name
|      +--ro snooping-binding-info
|          +--ro ipv4* [mac-address ip-address]
|          | +--ro mac-address   -> ../state/mac-address
|          | +--ro ip-address    -> ../state/ip-address
|          | +--ro state
|          | +--ro mac-address?  cml-data-types:cml_mac_addr_t
|          | +--ro lease-time?   uint32
|          | +--ro type?         ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|          | +--ro if-name?     string
|          | +--ro ip-address?   inet:ipv4-address
|          +--ro ipv6* [mac-address ip-address] {feature-list:HAVE_IPV6}?
|          | +--ro mac-address   -> ../state/mac-address
|          | +--ro ip-address    -> ../state/ip-address
|          | +--ro state
|          | +--ro mac-address?  cml-data-types:cml_mac_addr_t
|          | +--ro lease-time?   uint32
|          | +--ro type?         ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|          | +--ro if-name?     string
|          | +--ro ip-address?   inet:ipv6-address
+--rw interfaces
+--rw interface* [name]
+--rw name       -> ../config/name
+--rw config

```

```

| +--rw name? -> /ipi-interface:interfaces/interface/name
+--ro state
| +--ro name? -> /ipi-interface:interfaces/interface/name
+--rw trust
| +--rw config
| | +--rw snooping-trust? empty
| +--ro state
|   +--ro snooping-trust? empty
+--rw verify
| +--rw config!
| | +--rw verify-snooping-vlan    empty
| | +--rw verify-access-group-mode? empty
| +--ro state
|   +--ro verify-snooping-vlan    empty
|   +--ro verify-access-group-mode? empty
+--ro snooping-binding-info
| +--ro ipv4-entries
| | +--ro ipv4-entry* [ip-address]
| |   +--ro ip-address -> ../state/ip-address
| |   +--ro state
| |     +--ro interface?  string
| |     +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
| |     +--ro vlan-id?    uint16
| |     +--ro mac-address? cml-data-types:cml_mac_addr_t
| |     +--ro ip-address?  inet:ipv4-address
| +--ro ipv6-entries {feature-list:HAVE_IPV6}?
|   +--ro ipv6-entry* [ip-address]
|     +--ro ip-address -> ../state/ip-address
|     +--ro state
|       +--ro interface?  string
|       +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|       +--ro vlan-id?    uint16
|       +--ro mac-address? cml-data-types:cml_mac_addr_t
|       +--ro ip-address?  inet:ipv6-address
+--ro source-binding-info
  +--ro ipv4-entries

```

```

| +--ro ipv4-entry* [ip-address]
|   +--ro ip-address  -> ../state/ip-address
|   +--ro state
|     +--ro interface?  string
|     +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|     +--ro vlan-id?    uint16
|     +--ro mac-address? cml-data-types:cml_mac_addr_t
|     +--ro ip-address?  inet:ipv4-address
+--ro ipv6-entries {feature-list:HAVE_IPV6}?
  +--ro ipv6-entry* [ip-address]
    +--ro ip-address  -> ../state/ip-address
    +--ro state
      +--ro interface?  string
      +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
      +--ro vlan-id?    uint16
      +--ro mac-address? cml-data-types:cml_mac_addr_t
      +--ro ip-address?  inet:ipv6-address

```

rpcs:

```

+---x clear-relay-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
+---x clear-relay-option-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
+---x clear-dhcpv6-pd-route {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w vrf-name  string
+---x dhcp-snooping-write-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w bridge-id  string
+---x dhcp-snooping-renew-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w bridge-id  string
+---x dhcp-snooping-write-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input

```

```

|   +---w bridge-id   string

+---x dhcp-snooping-renew-source-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?

|   +---w input

|   +---w bridge-id   string

+---x dhcp-snooping-clear-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?

|   +---w input

|   +---w bridge-id   string

+---x dhcp-snooping-clear-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?

|   +---w input

|   +---w bridge-id   string

+---x dhcp-snooping-terminal-debug-on {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?

|   +---w input

|   +---w terminal-debug-options   ipi-dhcp-snooping-types:dhcp_snooping_debug_t

+---x dhcp-snooping-terminal-debug-off {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?

+---w input

+---w terminal-debug-options   ipi-dhcp-snooping-types:dhcp_snooping_debug_t

```

notifications:

```

+---n dhcpv6-relay-pd-route

+--ro severity?      cml-data-types:cml_notif_severity_t

+--ro eventClass?    cml-data-types:cml_notif_class_t

+--ro vrf-name?      string

+--ro interface-name? string

+--ro state?         ipi-dhcp-relay-types:dhcp6_pd_route_state_t

+--ro prefix?        cml-data-types:cml_ipv6_prefix_t

+--ro next-hop?      inet:ipv6-address

```

ipi-dns-client

```

+--rw dns

+--rw vrfs

|   +--rw vrf* [vrf-name]

```

```

|   +--rw vrf-name      -> ../config/vrf-name
|   +--rw config
|   |   +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|   |   +--rw lookup-enabled?    empty
|   |   +--rw default-domain-name?  inet:domain-name
|   +--ro state
|   |   +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|   |   +--ro lookup-enabled?    empty
|   |   +--ro default-domain-name?  inet:domain-name
|   +--rw servers
|   |   +--rw server* [address]
|   |       +--rw address  -> ../config/address
|   |       +--rw config
|   |           +--rw address?  inet:ip-address
|   |           +--ro state
|   |               +--ro address?  inet:ip-address
|   +--rw search-domains
|   |   +--rw search-domain* [domain-name]
|   |       +--rw domain-name  -> ../config/domain-name
|   |       +--rw config
|   |           +--rw domain-name?  inet:domain-name
|   |           +--ro state
|   |               +--ro domain-name?  inet:domain-name
|   +--rw host-entries
|       +--rw host-entry* [hostname]
|           +--rw hostname  -> ../config/hostname
|           +--rw config
|               +--rw hostname?    cml-data-types:cml_host_string_t
|               +--rw ipv4-address?  inet:ipv4-address
|               +--rw ipv6-address?  inet:ipv6-address {feature-list:HAVE_IPV6}?
|               +--ro state
|                   +--ro hostname?    cml-data-types:cml_host_string_t
|                   +--ro ipv4-address?  inet:ipv4-address
|                   +--ro ipv6-address?  inet:ipv6-address {feature-list:HAVE_IPV6}?
+--rw debug

```

```

| +--rw config
| | +--rw enable? empty
| | +--ro state
| |   +--ro enable? empty
| |   +--ro terminal-debug-status? cml-data-types:cml_on_off_t
+--rw default-instance
  +--rw config
  | +--rw disable-default-instance? empty
  +--ro state
    +--ro disable-default-instance? empty

```

rpcs:

```

+---x dns-client-terminal-debug-on {feature-list:HAVE_DNS_CLIENT}?
+---x dns-client-terminal-debug-off {feature-list:HAVE_DNS_CLIENT}?

```

ipi-dns-relay

```

+--rw dns-relay
  +--rw config
  | +--rw enable-dns-feature? boolean
  | +--rw enable-dnsv4-relay? boolean
  | +--rw enable-dnsv6-relay? boolean {feature-list:HAVE_IPV6}?
  | +--rw disable-dnssec-validation? empty
  | +--rw dns-server-v4-addr* inet:ipv4-address
  | +--rw dns-server-v6-addr* inet:ipv6-address {feature-list:HAVE_IPV6}?
  +--ro state
  | +--ro enable-dns-feature? boolean
  | +--ro enable-dnsv4-relay? boolean
  | +--ro enable-dnsv6-relay? boolean {feature-list:HAVE_IPV6}?
  | +--ro disable-dnssec-validation? empty
  | +--ro dns-server-v4-addr* inet:ipv4-address
  | +--ro dns-server-v6-addr* inet:ipv6-address {feature-list:HAVE_IPV6}?
  +--rw interfaces
  | +--rw interface* [name]
  |   +--rw name -> ../config/name
  |   +--rw config

```

```

| | +--rw name?          -> /ipi-interface:interfaces/interface/name
| | +--rw enable-dnsv4-relay? empty
| | +--rw enable-dnsv6-relay? empty {feature-list:HAVE_IPV6}?
| | +--rw dns-relay-uplink? empty
| | +--rw dns-relay-v6-uplink? empty {feature-list:HAVE_IPV6}?
| +--ro state
|   +--ro name?          -> /ipi-interface:interfaces/interface/name
|   +--ro enable-dnsv4-relay? empty
|   +--ro enable-dnsv6-relay? empty {feature-list:HAVE_IPV6}?
|   +--ro dns-relay-uplink? empty
|   +--ro dns-relay-v6-uplink? empty {feature-list:HAVE_IPV6}?
+--rw vrfs {feature-list:HAVE_VRF}?
  +--rw vrf* [vrf-name]
    +--rw vrf-name -> ../config/vrf-name
    +--rw config
      | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
      | +--rw disable-dnssec-validation? empty
      | +--rw dns-server-v4-addr*    inet:ipv4-address
      | +--rw dns-server-v6-addr*    inet:ipv6-address {feature-list:HAVE_IPV6}?
      +--ro state
        +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
        +--ro disable-dnssec-validation? empty
        +--ro dns-server-v4-addr*    inet:ipv4-address
        +--ro dns-server-v6-addr*    inet:ipv6-address {feature-list:HAVE_IPV6}?

```

ipi-docker

```

+--rw docker
  +--rw config
    | +--rw enable? empty
    +--ro state
      +--ro enable? empty

```

ipi-edpl

```
+--rw edpl
  +--rw profiles
    | +--rw profile* [name]
    |   +--rw name      -> ../config/name
    |   +--rw config
    |     | +--rw name?          string
    |     | +--rw direction?     ipi-edpl-types:edpl_direction_t
    |     | +--rw dst-mac?       cml-data-types:cml_mac_addr_t
    |     | +--rw vlan-id?       uint16
    |     | +--rw ip-swap?       empty
    |     | +--rw udp-tcp-port-swap? empty
    |     | +--rw source-udp-port? uint16
    |     | +--rw destination-udp-port? uint16
    |     | +--rw ethertype?     string
    |     | +--rw address-family? ipi-edpl-types:edpl_addr_family_t
    |     | +--rw src-ip?        inet:ip-address
    |     | +--rw dst-ip?        inet:ip-address
    |     +--ro state
    |       +--ro name?          string
    |       +--ro direction?     ipi-edpl-types:edpl_direction_t
    |       +--ro dst-mac?       cml-data-types:cml_mac_addr_t
    |       +--ro vlan-id?       uint16
    |       +--ro ip-swap?       empty
    |       +--ro udp-tcp-port-swap? empty
    |       +--ro source-udp-port? uint16
    |       +--ro destination-udp-port? uint16
    |       +--ro ethertype?     string
    |       +--ro address-family? ipi-edpl-types:edpl_addr_family_t
    |       +--ro src-ip?        inet:ip-address
    |       +--ro dst-ip?        inet:ip-address
  +--rw tests
    +--rw test* [name]
      +--rw name      -> ../config/name
      +--rw config
```

```
| +--rw name?      string
| +--rw profile?   -> /edpl/profiles/profile/config/name
| +--rw source-port? -> /ipi-interface:interfaces/interface/name
| +--rw l2-port?   -> /ipi-interface:interfaces/interface/name
+--ro state
| +--ro name?      string
| +--ro profile?   -> /edpl/profiles/profile/config/name
| +--ro source-port? -> /ipi-interface:interfaces/interface/name
| +--ro l2-port?   -> /ipi-interface:interfaces/interface/name
+--rw timer
| +--rw config!
| | +--rw duration  empty
| | +--rw hours?    uint8
| | +--rw minutes?  uint8
| | +--rw seconds?  uint8
| +--ro state
|   +--ro duration  empty
|   +--ro hours?    uint8
|   +--ro minutes?  uint8
|   +--ro seconds?  uint8
+--rw execution
  +--ro state
    +--ro test-direction?    ipi-edpl-types:edpl_direction_t
    +--ro address-family?    ipi-edpl-types:edpl_addr_family_t
    +--ro logical-if-name?    string
    +--ro src-if-name?        string
    +--ro dst-mac?            string
    +--ro vlan?               uint16
    +--ro ethtype?            string
    +--ro src-ip?              string
    +--ro dst-ip?              string
    +--ro src-udp-port?        uint16
    +--ro dst-udp-port?        uint16
    +--ro action-ip-swap?      string
    +--ro action-udp-tcp-port-swap? string
    +--ro start-time?          string
```

```

+--ro end-time?      string
+--ro perpetual-time? empty

```

rpcs:

```

+---x edpl-test-execute {feature-list:HAVE_ONMD,feature-list:HAVE_EDPL}?
  +---w input
    +---w edpl-action   ipi-edpl-types:edpl_test_action_t
    +---w test-name     string

```

ipi-elk

```

+--rw elk
  +--rw metricbeats
    | +--rw metricbeat* [ip]
    |   +--rw ip      -> ../config/ip
    |   +--rw config
    |     | +--rw ip?      inet:ipv4-address
    |     | +--rw username string
    |     | +--rw password string
    |     +--ro state
    |       +--ro ip?      inet:ipv4-address
    |       +--ro username string
    |       +--ro password string
  +--rw filebeats
    +--rw filebeat* [ip]
      +--rw ip      -> ../config/ip
      +--rw config
        | +--rw ip?      inet:ipv4-address
        | +--rw certificate-path? string
        +--ro state
          +--ro ip?      inet:ipv4-address
          +--ro certificate-path? string

```

rpcs:

```

+---x elk-metricbeat-service-enable {feature-list:HAVE_HOSTPD}?

```

```

| +---w input
|   +---w vrf-name   string
+---x elk-filebeat-service-enable {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w vrf-name   string
+---x elk-metricbeat-service-disable {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w vrf-name   string
+---x elk-filebeat-service-disable {feature-list:HAVE_HOSTPD}?
    +---w input
        +---w vrf-name   string

```

ipi-enhanced-pbr

```

+--rw enhanced-pbr
  +--ro class-maps-default
    | +--ro class-map-default* [name]
    |   +--ro name      -> ../state/name
    |   +--ro state
    |     +--ro name?      string
    |     +--ro type?      ipi-enhanced-pbr-types:epbr_class_map_t
    |     +--ro match-criteria? ipi-enhanced-pbr-types:epbr_match_criteria_t
  +--rw class-maps
    | +--rw class-map* [name class-type]
    |   +--rw name      -> ../config/name
    |   +--rw class-type -> ../config/class-type
    |   +--rw config
    |     | +--rw name?      string
    |     | +--rw class-type? ipi-enhanced-pbr-types:epbr_class_map_t
    |     | +--rw match-criteria ipi-enhanced-pbr-types:epbr_match_criteria_t
    |     | +--rw reference-description? cml-data-types:cml_line_t
    |     +--ro state
    |       | +--ro name?      string
    |       | +--ro class-type? ipi-enhanced-pbr-types:epbr_class_map_t
    |       | +--ro match-criteria ipi-enhanced-pbr-types:epbr_match_criteria_t

```

```

| | +--ro reference-description? cml-data-types:cml_line_t
| +--rw match-filters
|   +--rw config
|     | +--rw protocol?      cml-data-types:cml_range_t
|     | +--rw port?          cml-data-types:cml_range_t
|     | +--rw destination-port? cml-data-types:cml_range_t
|     | +--rw source-port?    cml-data-types:cml_range_t
|     | +--rw packet-length?  cml-data-types:cml_range_t
|     | +--rw fragment-type?  ipi-enhanced-pbr-types:epbr_fragment_type_t
|   +--ro state
|     | +--ro protocol?      cml-data-types:cml_range_t
|     | +--ro port?          cml-data-types:cml_range_t
|     | +--ro destination-port? cml-data-types:cml_range_t
|     | +--ro source-port?    cml-data-types:cml_range_t
|     | +--ro packet-length?  cml-data-types:cml_range_t
|     | +--ro fragment-type?  ipi-enhanced-pbr-types:epbr_fragment_type_t
|   +--rw ipv4
|     | +--rw config
|     | | +--rw destination-prefix? cml-data-types:cml_ipv4_addr_prefix_t
|     | | +--rw source-prefix?     cml-data-types:cml_ipv4_addr_prefix_t
|     | | +--ro state
|     | | | +--ro destination-prefix? cml-data-types:cml_ipv4_addr_prefix_t
|     | | | +--ro source-prefix?     cml-data-types:cml_ipv4_addr_prefix_t
|     | | +--rw icmp
|     | |   +--rw config
|     | |     | +--rw icmp-type? cml-data-types:cml_range_t
|     | |     | +--rw icmp-code? cml-data-types:cml_range_t
|     | |     +--ro state
|     | |       +--ro icmp-type? cml-data-types:cml_range_t
|     | |       +--ro icmp-code? cml-data-types:cml_range_t
|     +--rw tcp-flag
|       | +--rw config
|       | | +--rw value?  string
|       | | +--rw bit-mask? string
|       | +--ro state
|       | +--ro value?  string

```

```

|   |   +--ro bit-mask?  string
|   +--rw dscp
|       +--rw config
|           | +--rw match-dscp-value?  cml-data-types:cml_range_t
|           +--ro state
|               +--ro match-dscp-value?  cml-data-types:cml_range_t
+--rw policy-maps
+--rw policy-map* [policy-map-name type]
+--rw policy-map-name  -> ../config/policy-map-name
+--rw type              -> ../config/type
+--rw config
| +--rw policy-map-name?      string
| +--rw type?                ipi-enhanced-pbr-types:epbr_policy_map_t
| +--rw reference-description? cml-data-types:cml_line_t
+--ro state
| +--ro policy-map-name?      string
| +--ro type?                ipi-enhanced-pbr-types:epbr_policy_map_t
| +--ro reference-description? cml-data-types:cml_line_t
+--rw classes
+--rw class* [class-map-name class-type]
+--rw class-map-name  -> ../config/class-map-name
+--rw class-type      -> ../config/class-type
+--rw config
| +--rw class-map-name?  string
| +--rw class-type?      ipi-enhanced-pbr-types:epbr_class_map_t
+--ro state
| +--ro class-map-name?  string
| +--ro class-type?      ipi-enhanced-pbr-types:epbr_class_map_t
+--rw policy-actions
+--rw config
| +--rw drop-traffic?  empty
| +--rw dscp-set-value? ipi-enhanced-pbr-types:epbr_hex_dscp_t
+--ro state
| +--ro drop-traffic?  empty
| +--ro dscp-set-value? ipi-enhanced-pbr-types:epbr_hex_dscp_t
+--rw police

```

```

| +--rw config
| | +--rw rate?      uint64
| | +--rw rate-unit? ipi-enhanced-pbr-types:epbr_rate_unit_t
| +--ro state
|   +--ro rate?      uint64
|   +--ro rate-unit? ipi-enhanced-pbr-types:epbr_rate_unit_t
+--rw redirect
  +--rw ipv4
    +--rw extcommunity
      +--rw config
        | +--rw route-target? ipi-enhanced-pbr-types:epbr_vrf_rt_t
        +--ro state
          +--ro route-target? ipi-enhanced-pbr-types:epbr_vrf_rt_t

```

ipi-erpsv2

```

+--rw erpsv2 {feature-list:HAVE_G8032V2}?
  +--rw rings
    | +--rw ring* [ring-name]
    |   +--rw ring-name  -> ../config/ring-name
    |   +--rw config
    |     | +--rw ring-name?   string
    |     | +--rw east-interface? -> /ipi-interface:interfaces/interface/name
    |     | +--rw west-interface? -> /ipi-interface:interfaces/interface/name
    |     | +--rw description?  cml-data-types:cml_line_t
    |     +--ro state
    |       +--ro ring-name?    string
    |       +--ro east-interface? -> /ipi-interface:interfaces/interface/name
    |       +--ro west-interface? -> /ipi-interface:interfaces/interface/name
    |       +--ro description?  cml-data-types:cml_line_t
  +--rw profiles
    | +--rw profile* [profile-name]
    |   +--rw profile-name  -> ../config/profile-name
    |   +--rw config
    |     | +--rw profile-name?   string

```

```

| | +--rw wait-to-restore-timer? uint8
| | +--rw hold-off-timer?      uint16
| | +--rw guard-time?         uint16
| | +--rw protection-mode?     ipi-erpsv2-types:erpsv2_protection_mode_t
| +--ro state
|   +--ro profile-name?       string
|   +--ro wait-to-restore-timer? uint8
|   +--ro hold-off-timer?     uint16
|   +--ro guard-time?        uint16
|   +--ro protection-mode?    ipi-erpsv2-types:erpsv2_protection_mode_t
|   +--ro wait-to-block-time? uint32
+--rw erp-instances
| +--rw erp-instance* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|     +--rw name?       string
|     +--rw ring-name?  -> /erpsv2/rings/ring/ring-name
|     +--rw mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|     +--rw ring-type?   ipi-erpsv2-types:erpsv2_ring_type_t
|     +--rw enable-tcn-propagation? empty
|     +--rw tcn-to-instances* string
|     +--rw non-virtual-channel? empty
|     +--rw ring-id?     uint8
|     +--rw description? cml-data-types:cml_line_t
|     +--ro state
|       +--ro name?      string
|       +--ro ring-name? -> /erpsv2/rings/ring/ring-name
|       +--ro mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|       +--ro ring-type?   ipi-erpsv2-types:erpsv2_ring_type_t
|       +--ro enable-tcn-propagation? empty
|       +--ro tcn-to-instances* string
|       +--ro non-virtual-channel? empty
|       +--ro ring-id?     uint8
|       +--ro description? cml-data-types:cml_line_t
|       +--ro instance-id? uint8
|       +--ro node-id?     string

```

```

| | +--ro ring?          string
| | +--ro virtual?       string
| | +--ro attached?      string
| | +--ro attached-to?   string
| | +--ro tcn-propagation? string
| | +--ro erp-state?      ipi-erpsv2-types:erpsv2_erp_state_t
| | +--ro initial-timer-status? string
| | +--ro wait-to-restore-timer? string
| | +--ro wait-to-block-timer? uint32
| | +--ro hold-off-timer?  uint16
| | +--ro guard-timer?    uint16
| | +--ro east-if-name?   string
| | +--ro east-link-status? ipi-erpsv2-types:erpsv2_link_status_t
| | +--ro east-if-state?  ipi-erpsv2-types:erpsv2_interface_state_t
| | +--ro east-bpr?       string
| | +--ro east-node-id?   string
| | +--ro west-if-name?   string
| | +--ro west-link-status? ipi-erpsv2-types:erpsv2_link_status_t
| | +--ro west-if-state?  ipi-erpsv2-types:erpsv2_interface_state_t
| | +--ro west-bpr?       string
| | +--ro west-node-id?   string
| | +--ro east-cfm-mep-id? uint16
| | +--ro east-cfm-cc-interval? ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
| | +--ro east-cfm-domain? string
| | +--ro east-cfm-ma?     string
| | +--ro west-cfm-mep-id? uint16
| | +--ro west-cfm-cc-interval? ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
| | +--ro west-cfm-domain? string
| | +--ro west-cfm-ma?     string
| | +--ro aps-channel-level? uint8
| | +--ro aps-channel-vlan? uint16
| | +--ro data-vlan?       string
| | +--ro current-state?   ipi-erpsv2-types:erpsv2_ring_state_t
| | +--ro out-aps-pkts?    yang:counter32
| | +--ro in-aps-pkts?     yang:counter32
| | +--ro previous-state?  ipi-erpsv2-types:erpsv2_ring_state_t

```

```

|   +--rw associate-rings
|   |   +--rw associate-ring* [associate-ring-name]
|   |   |   +--rw associate-ring-name   -> ../config/associate-ring-name
|   |   |   +--rw config
|   |   |   |   +--rw associate-ring-name?  string
|   |   |   |   +--ro state
|   |   |   |   |   +--ro associate-ring-name?  string
|   |   |   |   |   +--ro data-vlan?           string
|   |   +--rw instance-role
|   |   |   +--rw config
|   |   |   |   +--rw (role-option)?
|   |   |   |   |   +--:(owner)
|   |   |   |   |   |   +--rw owner-port-id?      ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   +--:(neighbor)
|   |   |   |   |   |   |   +--rw neighbor-port-id?  ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   |   +--:(next-neighbor)
|   |   |   |   |   |   |   |   +--rw next-neighbor-port-id? ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   |   |   +--:(non-owner)
|   |   |   |   |   |   |   |   |   +--rw non-owner?      empty
|   |   |   +--ro state
|   |   |   |   +--ro (role-option)?
|   |   |   |   |   +--:(owner)
|   |   |   |   |   |   +--ro owner-port-id?      ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   +--:(neighbor)
|   |   |   |   |   |   |   +--ro neighbor-port-id?  ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   |   +--:(next-neighbor)
|   |   |   |   |   |   |   |   +--ro next-neighbor-port-id? ipi-erpsv2-types:erpsv2_port_id_t
|   |   |   |   |   |   |   |   +--:(non-owner)
|   |   |   |   |   |   |   |   |   +--ro non-owner?      empty
|   +--rw aps-channel
|   |   +--rw config
|   |   |   +--rw level?  uint8
|   |   +--ro state
|   |   |   +--ro level?  uint8
|   +--rw aps-channel-vlans
|   |   +--rw aps-channel-vlan* [vlan-id]

```

ipi-aaa

```

+--rw aaa
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name      -> ../config/vrf-name
    |   +--rw config
    |   | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |   | +--rw authentication-method-rule? cml-data-types:cml_line_t
    |   | +--rw accounting-method-rule?    cml-data-types:cml_line_t
    |   | +--rw authorization-method-rule? cml-data-types:cml_line_t
    |   | +--rw enable-fallback?          empty
    |   | +--rw non-existent?             empty
    |   | +--rw error-enable?             empty
    |   | +--ro state
    |   | +--ro vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |   | +--ro authentication-method-rule? cml-data-types:cml_line_t
    |   | +--ro accounting-method-rule?    cml-data-types:cml_line_t
    |   | +--ro authorization-method-rule? cml-data-types:cml_line_t
    |   | +--ro enable-fallback?          empty
    |   | +--ro non-existent?             empty
    |   | +--ro error-enable?             empty
    |   +--rw server-groups
    |       +--rw server-group* [group-type group-name]
    |           +--rw group-type      -> ../config/group-type
    |           +--rw group-name      -> ../config/group-name
    |           +--rw config
    |               | +--rw group-type? ipi-aaa-types:aaa_server_grp_type_t
    |               | +--rw group-name? string
    |               +--ro state
    |                   | +--ro group-type? ipi-aaa-types:aaa_server_grp_type_t
    |                   | +--ro group-name? string

```

```

|      +--rw server-addresses
|      +--rw server-address* [host-address]
|      +--rw host-address  -> ../config/host-address
|      +--rw config
|      | +--rw host-address?  cml-data-types:cml_hostname_t
|      +--ro state
|      +--ro host-address?  cml-data-types:cml_hostname_t
+--rw aaa-authentication-console
| +--rw config
| | +--rw authentication-method-rule?  cml-data-types:cml_line_t
| | +--rw enable-fallback?             boolean
| | +--rw authorization-method-rule?  cml-data-types:cml_line_t
| | +--rw accounting-method-rule?     cml-data-types:cml_line_t
| | +--rw user-non-existent?          empty
| +--ro state
| +--ro authentication-method-rule?  cml-data-types:cml_line_t
| +--ro enable-fallback?             boolean
| +--ro authorization-method-rule?  cml-data-types:cml_line_t
| +--ro accounting-method-rule?     cml-data-types:cml_line_t
| +--ro user-non-existent?          empty
+--rw aaa-user
| +--rw config
| | +--rw authentication-max-failure-attempts?  uint8
| | +--rw local-user-unlock-timeout?           uint16
| +--ro state
| | +--ro authentication-max-failure-attempts?  uint8
| | +--ro local-user-unlock-timeout?           uint16
+--rw password-policy
| +--rw config
| | +--rw enable?          empty
| | +--rw numeric-count?   uint8
| | +--rw uppercase-count? uint8
| | +--rw lowercase-count? uint8
| | +--rw special-count?   uint8
| | +--rw history?         uint16
| | +--rw maxsequence?     uint8

```

```

| | +--rw disable-usercheck? empty
| | +--rw maxrepeat?      uint8
| | +--rw min-length?     uint8
| +--ro state
| | +--ro enable?        empty
| | +--ro numeric-count?  uint8
| | +--ro uppercase-count? uint8
| | +--ro lowercase-count? uint8
| | +--ro special-count?  uint8
| | +--ro history?       uint16
| | +--ro maxsequence?   uint8
| | +--ro disable-usercheck? empty
| | +--ro maxrepeat?     uint8
| | +--ro min-length?    uint8
| +--rw role-expdays
| | +--rw role-expday* [role]
| |   +--rw role    -> ../config/role
| |   +--rw config
| |     | +--rw expire? uint16
| |     | | +--rw role?  ipi-user-management-types:user_mgmt_role_types_t
| |     | | +--rw user?  string
| |     | +--ro state
| |     |   +--ro expire? uint16
| |     |   +--ro role?  ipi-user-management-types:user_mgmt_role_types_t
| |     |   +--ro user?  string
| +--rw user-expdays
|   +--rw user-expday* [user]
|     +--rw user    -> ../config/user
|     +--rw config
|       | +--rw expire? uint16
|       | | +--rw role?  ipi-user-management-types:user_mgmt_role_types_t
|       | | +--rw user?  string
|       | +--ro state
|       |   +--ro expire? uint16
|       |   +--ro role?  ipi-user-management-types:user_mgmt_role_types_t
|       |   +--ro user?  string

```

```

+--rw debug
  +--rw config
    | +--rw enable?  empty
  +--ro state
    +--ro enable?          empty
    +--ro terminal-debug-status?  cml-data-types:cml_on_off_t

```

rpcs:

```

+---x aaa-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
+---x aaa-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
+---x aaa-clear-local-user-lockout {feature-list:HAVE_AAA}?
  +---w input
    +---w username  string

```

ipi-acl

```

+--rw acl
  +--rw acl-sets
    | +--rw acl-set* [name type]
    |   +--rw name      -> ../config/name
    |   +--rw type      -> ../config/type
    |   +--rw config
    |     | +--rw name?          string
    |     | +--rw type?          ipi-acl-types:acl_types_t
    |     | +--rw description?    cml-data-types:cml_line_t
    |     | +--rw ipv6-disable-default-icmpv6-rule?  empty
    |     +--ro state
    |       | +--ro name?          string
    |       | +--ro type?          ipi-acl-types:acl_types_t

```

```

| | +--ro description?          cml-data-types:cml_line_t
| | +--ro ipv6-disable-default-icmpv6-rule? empty
| | +--rw default-actions
| | +--rw config
| | | +--rw forwarding-action-default? ipi-acl-types:acl_default_forwarding_action_t
| | +--ro state
| |   +--ro counters
| |     | +--ro matched-packets? yang:counter64
| |     +--ro forwarding-action-default? ipi-acl-types:acl_default_forwarding_action_t
| | +--rw acl-entries
| |   +--rw acl-entry* [sequence-id]
| |     +--rw sequence-id -> ../config/sequence-id
| |     +--rw config
| |       | +--rw sequence-id? uint32
| |       +--ro state
| |         | +--ro sequence-id? uint32
| |       +--rw ipv4
| |         | +--rw config
| |         | | +--rw forwarding-action?          ipi-acl-types:acl_forwarding_action_t
| |         | | +--rw vlan-id?                    uint16
| |         | | +--rw learn-disable?              empty {feature-list:HAVE_DNX}?
| |         | | +--rw source-address?             ipi-acl-types:acl_any_ipv4_src_addr_t
| |         | | +--rw destination-address?        ipi-acl-types:acl_any_ipv4_dest_addr_t
| |         | | +--rw dscp?                       ipi-acl-types:acl_dscp_t
| |         | | +--rw precedence?                 ipi-acl-types:acl_precedence_t
| |         | | +--rw inner-vlan-id?              uint16
| |         | | +--rw (protocol)?
| |         | | | +--:(tcp)
| |         | | | | +--rw protocol-tcp?          empty
| |         | | | | +--rw tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| |         | | | | +--rw tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
| |         | | | | +--rw tcp-flags?             ipi-acl-types:acl_tcp_flags_t
| |         | | | +--:(udp)
| |         | | | | +--rw protocol-udp?          empty
| |         | | | | +--rw udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| |         | | | | +--rw udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t

```

```

| | | | +--:(icmp)
| | | | | +--rw protocol-icmp?          empty
| | | | | +--:(other-protocols)
| | | | | +--rw protocol-name?          ipi-acl-types:acl_ip_protocols_t
| | | | | +--rw source-port-operator?    ipi-acl-types:acl_src_port_operations_t
| | | | | +--rw lower-source-port-in-range? uint16
| | | | | +--rw upper-source-port-in-range? uint16
| | | | | +--rw destination-port-operator? ipi-acl-types:acl_dest_port_operations_t
| | | | | +--rw lower-destination-port-in-range? uint16
| | | | | +--rw upper-destination-port-in-range? uint16
| | | | +--ro state
| | | | +--ro counters
| | | | | +--ro matched-packets? yang:counter64
| | | | | +--ro forwarding-action?        ipi-acl-types:acl_forwarding_action_t
| | | | | +--ro vlan-id?                  uint16
| | | | | +--ro learn-disable?            empty {feature-list:HAVE_DNX}?
| | | | | +--ro source-address?           ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | +--ro destination-address?      ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | +--ro dscp?                     ipi-acl-types:acl_dscp_t
| | | | | +--ro precedence?               ipi-acl-types:acl_precedence_t
| | | | | +--ro inner-vlan-id?            uint16
| | | | | +--ro (protocol)?
| | | | | +--:(tcp)
| | | | | | +--ro protocol-tcp?          empty
| | | | | | +--ro tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| | | | | | +--ro tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
| | | | | | +--ro tcp-flags?             ipi-acl-types:acl_tcp_flags_t
| | | | | +--:(udp)
| | | | | | +--ro protocol-udp?          empty
| | | | | | +--ro udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | | | +--ro udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| | | | | +--:(icmp)
| | | | | | +--ro protocol-icmp?          empty
| | | | | | +--:(other-protocols)
| | | | | | +--ro protocol-name?          ipi-acl-types:acl_ip_protocols_t
| | | | | +--ro source-port-operator?     ipi-acl-types:acl_src_port_operations_t

```

```

| | | +--ro lower-source-port-in-range?   uint16
| | | +--ro upper-source-port-in-range?   uint16
| | | +--ro destination-port-operator?    ipi-acl-types:acl_dest_port_operations_t
| | | +--ro lower-destination-port-in-range? uint16
| | | +--ro upper-destination-port-in-range? uint16
| | +--rw ipv6 {feature-list:HAVE_IPV6}?
| | | +--rw config
| | | | +--rw forwarding-action?          ipi-acl-types:acl_forwarding_action_t
| | | | +--rw vlan-id?                    uint16
| | | | +--rw learn-disable?              empty {feature-list:HAVE_DNX}?
| | | | +--rw source-address?              ipi-acl-types:acl_any_ipv6_src_addr_t
| | | | +--rw destination-address?         ipi-acl-types:acl_any_ipv6_dest_addr_t
| | | | +--rw dscp?                       ipi-acl-types:acl_dscp_t
| | | | +--rw (protocol)?
| | | | | +--:(tcp)
| | | | | | +--rw protocol-tcp?           empty
| | | | | | +--rw tcp-source-port?        ipi-acl-types:acl_tcp_src_port_t
| | | | | | +--rw tcp-destination-port?    ipi-acl-types:acl_tcp_dest_port_t
| | | | | +--:(udp)
| | | | | | +--rw protocol-udp?           empty
| | | | | | +--rw udp-source-port?        ipi-acl-types:acl_udp_src_port_t
| | | | | | +--rw udp-destination-port?    ipi-acl-types:acl_udp_dest_port_t
| | | | | +--:(icmp)
| | | | | | +--rw protocol-icmp?          empty
| | | | | +--:(sctp)
| | | | | | +--rw protocol-sctp?          empty
| | | | | | +--rw sctp-source-port?       uint16
| | | | | | +--rw sctp-destination-port?  uint16
| | | | | +--:(other-protocols)
| | | | | +--rw protocol-name?            ipi-acl-types:acl_ipv6_protocols_t
| | | | +--rw source-port-operator?       ipi-acl-types:acl_src_port_operations_t
| | | | +--rw lower-source-port-in-range? uint16
| | | | +--rw upper-source-port-in-range? uint16
| | | | +--rw destination-port-operator?  ipi-acl-types:acl_dest_port_operations_t
| | | | +--rw lower-destination-port-in-range? uint16
| | | | +--rw upper-destination-port-in-range? uint16

```

```

| | | +--ro state
| | |   +--ro counters
| | |     | +--ro matched-packets? yang:counter64
| | |     +--ro forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | |     +--ro vlan-id?                uint16
| | |     +--ro learn-disable?          empty {feature-list:HAVE_DNX}?
| | |     +--ro source-address?         ipi-acl-types:acl_any_ipv6_src_addr_t
| | |     +--ro destination-address?    ipi-acl-types:acl_any_ipv6_dest_addr_t
| | |     +--ro dscp?                   ipi-acl-types:acl_dscp_t
| | |     +--ro (protocol)?
| | |       | +--:(tcp)
| | |         | | +--ro protocol-tcp?    empty
| | |         | | +--ro tcp-source-port? ipi-acl-types:acl_tcp_src_port_t
| | |         | | +--ro tcp-destination-port? ipi-acl-types:acl_tcp_dest_port_t
| | |         | +--:(udp)
| | |         | | +--ro protocol-udp?    empty
| | |         | | +--ro udp-source-port? ipi-acl-types:acl_udp_src_port_t
| | |         | | +--ro udp-destination-port? ipi-acl-types:acl_udp_dest_port_t
| | |         | +--:(icmp)
| | |         | | +--ro protocol-icmp?   empty
| | |         | +--:(sctp)
| | |         | | +--ro protocol-sctp?   empty
| | |         | | +--ro sctp-source-port? uint16
| | |         | | +--ro sctp-destination-port? uint16
| | |         | +--:(other-protocols)
| | |         |   +--ro protocol-name?   ipi-acl-types:acl_ipv6_protocols_t
| | |         +--ro source-port-operator? ipi-acl-types:acl_src_port_operations_t
| | |         +--ro lower-source-port-in-range? uint16
| | |         +--ro upper-source-port-in-range? uint16
| | |         +--ro destination-port-operator? ipi-acl-types:acl_dest_port_operations_t
| | |         +--ro lower-destination-port-in-range? uint16
| | |         +--ro upper-destination-port-in-range? uint16
| | | +--rw arp
| | |   +--rw config
| | |     | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | |     | +--rw vlan-id?                uint16

```

```

| | | | +--rw learn-disable?          empty {feature-list:HAVE_DNX}?
| | | | +--rw inner-vlan-id?          uint16
| | | | +--rw (source-mac-options)?
| | | | | +--:(any-mac)
| | | | | +--rw source-mac-any?        empty
| | | | | +--:(host-mac)
| | | | | +--rw source-mac-host?       ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | | +--rw source-mac-address?    ipi-acl-types:acl_mac_addr_t
| | | | | +--rw source-mac-mask?      ipi-acl-types:acl_mac_addr_t
| | | | +--rw arp-packet-type?        ipi-acl-types:acl_arp_type_t
| | | | +--rw source-ip-address?      ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | +--rw destination-ip-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | +--rw (destination-mac-options)?
| | | | | +--:(any-mac)
| | | | | +--rw destination-mac-any?   empty
| | | | | +--:(host-mac)
| | | | | +--rw destination-mac-host?  ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | | +--rw destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | | | +--rw destination-mac-mask?  ipi-acl-types:acl_mac_addr_t
| | | +--ro state
| | | +--ro counters
| | | | +--ro matched-packets?  yang:counter64
| | | +--ro forwarding-action?  ipi-acl-types:acl_forwarding_action_t
| | | +--ro vlan-id?            uint16
| | | +--ro learn-disable?      empty {feature-list:HAVE_DNX}?
| | | +--ro inner-vlan-id?      uint16
| | | +--ro (source-mac-options)?
| | | | +--:(any-mac)
| | | | | +--ro source-mac-any?    empty
| | | | | +--:(host-mac)
| | | | | +--ro source-mac-host?   ipi-acl-types:acl_mac_addr_t
| | | | | +--:(mac-with-mask)
| | | | | +--ro source-mac-address? ipi-acl-types:acl_mac_addr_t
| | | | | +--ro source-mac-mask?   ipi-acl-types:acl_mac_addr_t

```

```

| | | +--ro arp-packet-type?      ipi-acl-types:acl_arp_type_t
| | | +--ro source-ip-address?    ipi-acl-types:acl_any_ipv4_src_addr_t
| | | +--ro destination-ip-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | +--ro (destination-mac-options)?
| | |   +--:(any-mac)
| | |     | +--ro destination-mac-any?    empty
| | |     +--:(host-mac)
| | |       | +--ro destination-mac-host?  ipi-acl-types:acl_mac_addr_t
| | |       +--:(mac-with-mask)
| | |         +--ro destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | |         +--ro destination-mac-mask?  ipi-acl-types:acl_mac_addr_t
| | +--rw mac
| | | +--rw config
| | | | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | | +--rw vlan-id?                uint16
| | | | +--rw learn-disable?          empty {feature-list:HAVE_DNX}?
| | | | +--rw inner-vlan-id?          uint16
| | | | +--rw (source-mac-options)?
| | | | | +--:(any-mac)
| | | | | | +--rw source-mac-any?      empty
| | | | | | +--:(host-mac)
| | | | | | +--rw source-mac-host?    ipi-acl-types:acl_mac_addr_t
| | | | | | +--:(mac-with-mask)
| | | | | | +--rw source-mac-address?  ipi-acl-types:acl_mac_addr_t
| | | | | | +--rw source-mac-mask?    ipi-acl-types:acl_mac_addr_t
| | | | +--rw ethertype?              ipi-acl-types:acl_ether_type_t
| | | | +--rw arp-packet-type?        ipi-acl-types:acl_arp_packet_type_t
| | | | +--rw cos-value?              uint8
| | | | +--rw (destination-mac-options)?
| | | | | +--:(any-mac)
| | | | | | +--rw destination-mac-any?    empty
| | | | | | +--:(host-mac)
| | | | | | +--rw destination-mac-host?  ipi-acl-types:acl_mac_addr_t
| | | | | | +--:(mac-with-mask)
| | | | | | +--rw destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | | | | | +--rw destination-mac-mask?  ipi-acl-types:acl_mac_addr_t

```

```

| | | +--ro state
| | |   +--ro counters
| | |     | +--ro matched-packets? yang:counter64
| | |     +--ro forwarding-action?   ipi-acl-types:acl_forwarding_action_t
| | |     +--ro vlan-id?             uint16
| | |     +--ro learn-disable?       empty {feature-list:HAVE_DNX}?
| | |     +--ro inner-vlan-id?       uint16
| | |     +--ro (source-mac-options)?
| | |       | +--:(any-mac)
| | |         | | +--ro source-mac-any?   empty
| | |         | | +--:(host-mac)
| | |         | | +--ro source-mac-host?   ipi-acl-types:acl_mac_addr_t
| | |         | | +--:(mac-with-mask)
| | |         |   +--ro source-mac-address? ipi-acl-types:acl_mac_addr_t
| | |         |   +--ro source-mac-mask?   ipi-acl-types:acl_mac_addr_t
| | |         +--ro ethertype?             ipi-acl-types:acl_ether_type_t
| | |         +--ro arp-packet-type?       ipi-acl-types:acl_arp_packet_type_t
| | |         +--ro cos-value?             uint8
| | |         +--ro (destination-mac-options)?
| | |           +--:(any-mac)
| | |             | +--ro destination-mac-any?   empty
| | |             +--:(host-mac)
| | |               | +--ro destination-mac-host? ipi-acl-types:acl_mac_addr_t
| | |               +--:(mac-with-mask)
| | |                 +--ro destination-mac-address? ipi-acl-types:acl_mac_addr_t
| | |                 +--ro destination-mac-mask?   ipi-acl-types:acl_mac_addr_t
| | +--rw copp {feature-list:HAVE_COPP_FILTER}?
| |   +--rw ipv4
| |     | +--rw config
| |       | | +--rw forwarding-action?   ipi-acl-types:acl_forwarding_action_t
| |       | | +--rw log-action?          uint32 {feature-list:HAVE_SFLOW}?
| |       | | +--rw ttl?                 uint8
| |       | | +--rw ip-options?          empty
| |       | | +--rw fragments?           empty
| |       | | +--rw (protocol)?
| |       | | | +--:(tcp)

```

```

| | | | +--rw protocol-tcp?          empty
| | | | +--rw tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| | | | +--rw tcp-destination-port?  ipi-acl-types:acl_tcp_dest_port_t
| | | | +--rw tcp-flags?             ipi-acl-types:acl_tcp_flags_t
| | | +--:(udp)
| | | | +--rw protocol-udp?          empty
| | | | +--rw udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | +--rw udp-destination-port?  ipi-acl-types:acl_udp_dest_port_t
| | | +--:(icmp)
| | | | +--rw protocol-icmp?         empty
| | | | +--rw icmp-type?             uint8
| | | +--:(other-protocols)
| | | | +--rw protocol-name?         ipi-acl-types:acl_ip_protocols_t
| | | | +--rw (source-ipv4-type)?
| | | | +--:(source-ipv4-address-type)
| | | | | +--rw source-address?       ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | | +--:(source-ipv4-prefix-group-type)
| | | | | | +--rw source-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | | | +--rw (destination-ipv4-type)?
| | | | | | +--:(destination-ipv4-address-type)
| | | | | | +--rw destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | | | +--:(destination-ipv4-prefix-group-type)
| | | | | | +--rw destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | | +--rw source-port-operator? ipi-acl-types:acl_copp_src_port_operations_t
| | | | | +--rw destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | | +--rw lower-source-port-in-range? uint16
| | | | | +--rw upper-source-port-in-range? uint16
| | | | | +--rw lower-destination-port-in-range? uint16
| | | | | +--rw upper-destination-port-in-range? uint16
| | | | +--ro state
| | | | +--ro forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | | | +--ro log-action?              uint32 {feature-list:HAVE_SFLOW}?
| | | | +--ro ttl?                    uint8
| | | | +--ro ip-options?              empty
| | | | +--ro fragments?              empty
| | | | +--ro (protocol)?

```

```

| | | | +--:(tcp)
| | | | | +--ro protocol-tcp?          empty
| | | | | +--ro tcp-source-port?        ipi-acl-types:acl_tcp_src_port_t
| | | | | +--ro tcp-destination-port?    ipi-acl-types:acl_tcp_dest_port_t
| | | | | +--ro tcp-flags?              ipi-acl-types:acl_tcp_flags_t
| | | | +--:(udp)
| | | | | +--ro protocol-udp?          empty
| | | | | +--ro udp-source-port?        ipi-acl-types:acl_udp_src_port_t
| | | | | +--ro udp-destination-port?    ipi-acl-types:acl_udp_dest_port_t
| | | | +--:(icmp)
| | | | | +--ro protocol-icmp?          empty
| | | | | +--ro icmp-type?              uint8
| | | | +--:(other-protocols)
| | | | | +--ro protocol-name?          ipi-acl-types:acl_ip_protocols_t
| | | | +--ro (source-ipv4-type)?
| | | | +--:(source-ipv4-address-type)
| | | | | +--ro source-address?          ipi-acl-types:acl_any_ipv4_src_addr_t
| | | | +--:(source-ipv4-prefix-group-type)
| | | | | +--ro source-prefix-group?     -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--ro (destination-ipv4-type)?
| | | | +--:(destination-ipv4-address-type)
| | | | | +--ro destination-address?      ipi-acl-types:acl_any_ipv4_dest_addr_t
| | | | +--:(destination-ipv4-prefix-group-type)
| | | | | +--ro destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--ro source-port-operator?      ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--ro destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--ro lower-source-port-in-range? uint16
| | | | +--ro upper-source-port-in-range? uint16
| | | | +--ro lower-destination-port-in-range? uint16
| | | | +--ro upper-destination-port-in-range? uint16
| | | +--rw ipv6 {feature-list:HAVE_IPV6}?
| | |   +--rw config
| | |   | +--rw forwarding-action?      ipi-acl-types:acl_forwarding_action_t
| | |   | +--rw log-action?              uint32 {feature-list:HAVE_SFLOW}?
| | |   | +--rw hop-limit?               uint8
| | |   | +--rw (protocol)?

```

```

| | | +---:(tcp)
| | | | +--rw protocol-tcp?          empty
| | | | +--rw tcp-source-port?       ipi-acl-types:acl_tcp_src_port_t
| | | | +--rw tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
| | | +---:(udp)
| | | | +--rw protocol-udp?          empty
| | | | +--rw udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | +--rw udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| | | +---:(icmp)
| | | | +--rw protocol-icmpv6?       empty
| | | +---:(other-protocols)
| | | | +--rw protocol-name?          ipi-acl-types:acl_copp_ipv6_protocols_t
| | | +--rw (source-ipv6-type)?
| | | | +---:(source-ipv6-address-type)
| | | | | +--rw source-address?       ipi-acl-types:acl_copp_any_ipv6_src_addr_t
| | | | | +---:(source-ipv6-prefix-group-type)
| | | | | | +--rw source-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | | +--rw (destination-ipv6-type)?
| | | | | | +---:(destination-ipv6-address-type)
| | | | | | | +--rw destination-address? ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
| | | | | | +---:(destination-ipv6-prefix-group-type)
| | | | | | | +--rw destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--rw source-port-operator?   ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--rw destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--rw lower-source-port-in-range? uint16
| | | | +--rw upper-source-port-in-range? uint16
| | | | +--rw lower-destination-port-in-range? uint16
| | | | +--rw upper-destination-port-in-range? uint16
| | | +--ro state
| | | | +--ro forwarding-action?       ipi-acl-types:acl_forwarding_action_t
| | | | +--ro log-action?              uint32 {feature-list:HAVE_SFLOW}?
| | | | +--ro hop-limit?              uint8
| | | | +--ro (protocol)?
| | | | | +---:(tcp)
| | | | | | +--ro protocol-tcp?       empty
| | | | | | +--ro tcp-source-port?    ipi-acl-types:acl_tcp_src_port_t

```

```

| | | | +--ro tcp-destination-port?    ipi-acl-types:acl_tcp_dest_port_t
| | | | +---:(udp)
| | | | | +--ro protocol-udp?          empty
| | | | | +--ro udp-source-port?       ipi-acl-types:acl_udp_src_port_t
| | | | | +--ro udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
| | | | | +---:(icmp)
| | | | | +--ro protocol-icmpv6?       empty
| | | | | +---:(other-protocols)
| | | | | +--ro protocol-name?          ipi-acl-types:acl_copp_ipv6_protocols_t
| | | | +--ro (source-ipv6-type)?
| | | | | +---:(source-ipv6-address-type)
| | | | | | +--ro source-address?       ipi-acl-types:acl_copp_any_ipv6_src_addr_t
| | | | | | +---:(source-ipv6-prefix-group-type)
| | | | | | +--ro source-prefix-group?   -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--ro (destination-ipv6-type)?
| | | | | +---:(destination-ipv6-address-type)
| | | | | | +--ro destination-address?   ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
| | | | | | +---:(destination-ipv6-prefix-group-type)
| | | | | | +--ro destination-prefix-group? -> /ipi-prefix-group:prefix-groups/prefix-group/name
| | | | +--ro source-port-operator?      ipi-acl-types:acl_copp_src_port_operations_t
| | | | +--ro destination-port-operator? ipi-acl-types:acl_copp_dest_port_operations_t
| | | | +--ro lower-source-port-in-range? uint16
| | | | +--ro upper-source-port-in-range? uint16
| | | | +--ro lower-destination-port-in-range? uint16
| | | | +--ro upper-destination-port-in-range? uint16
| | +--ro summary-info
| | +--ro state
| | | +--ro counters
| | | | +--ro total-acl-entries? yang:counter32
| | | | +--ro statistics-enabled? empty
| | | +--ro interfaces
| | | | +--ro interface* [interface-name]
| | | | +--ro interface-name -> ../state/interface-name
| | | | +--ro state
| | | | +--ro interface-name? -> /ipi-interface:interfaces/interface/name
| | | | +--ro filter-direction? ipi-acl-types:acl_filter_direction_t

```

```

|   |   +--ro interface-type?   ipi-acl-types:acl_interface_type_t
|   |   +--ro interface-status? ipi-acl-types:acl_interface_status_t
|   +--ro vty-line
|       +--ro state
|           +--ro filter-direction? ipi-acl-types:acl_filter_direction_t
+--rw standard-acl-sets
| +--rw standard-acl-set* [name type]
|   +--rw name          -> ../config/name
|   +--rw type          -> ../config/type
|   +--rw config
|   | +--rw name?   string
|   | +--rw type?   ipi-acl-types:acl_standard_types_t
|   +--ro state
|   | +--ro name?   string
|   | +--ro type?   ipi-acl-types:acl_standard_types_t
|   +--rw ipv4-acl-entries
|   | +--rw ipv4-acl-entry* [source-address]
|   |   +--rw source-address  -> ../config/source-address
|   |   +--rw config
|   |   | +--rw source-address?   ipi-acl-types:acl_any_ipv4_src_addr_t
|   |   | +--rw forwarding-action ipi-acl-types:acl_forwarding_action_t
|   |   +--ro state
|   |   +--ro source-address?   ipi-acl-types:acl_any_ipv4_src_addr_t
|   |   +--ro forwarding-action ipi-acl-types:acl_forwarding_action_t
|   +--rw ipv6-acl-entries {feature-list:HAVE_IPV6}?
|   +--rw ipv6-acl-entry* [source-address]
|   +--rw source-address  -> ../config/source-address
|   +--rw config
|   | +--rw source-address?   ipi-acl-types:acl_any_ipv6_src_addr_t
|   | +--rw forwarding-action ipi-acl-types:acl_forwarding_action_t
|   +--ro state
|   +--ro source-address?   ipi-acl-types:acl_any_ipv6_src_addr_t
|   +--ro forwarding-action ipi-acl-types:acl_forwarding_action_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name          -> ../config/name

```

```

|   +--rw config
|   |   +--rw name?  -> /ipi-interface:interfaces/interface/name
|   |   +--ro state
|   |   |   +--ro name?  -> /ipi-interface:interfaces/interface/name
|   |   +--rw ingress-acl-sets
|   |   |   +--rw ingress-acl-set* [acl-type]
|   |   |   |   +--rw acl-type      -> ../config/acl-type
|   |   |   |   +--rw config
|   |   |   |   |   +--rw acl-type?  ipi-acl-types:acl_types_t
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro acl-type?  ipi-acl-types:acl_types_t
|   |   |   |   |   +--rw access-groups
|   |   |   |   |   |   +--rw access-group* [acl-name]
|   |   |   |   |   |   |   +--rw acl-name  -> ../config/acl-name
|   |   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   |   +--rw acl-name?  string
|   |   |   |   |   |   |   |   +--rw time-range? string
|   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   +--ro acl-name?  string
|   |   |   |   |   |   |   |   +--ro time-range? string
|   |   +--rw egress-acl-sets
|   |   |   +--rw egress-acl-set* [acl-type]
|   |   |   |   +--rw acl-type      -> ../config/acl-type
|   |   |   |   +--rw config
|   |   |   |   |   +--rw acl-type?  ipi-acl-types:acl_types_t
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro acl-type?  ipi-acl-types:acl_types_t
|   |   |   |   +--rw access-groups
|   |   |   |   |   +--rw access-group* [acl-name]
|   |   |   |   |   |   +--rw acl-name  -> ../config/acl-name
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw acl-name?  string
|   |   |   |   |   |   +--rw time-range? string
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro acl-name?  string
|   |   |   |   |   |   +--ro time-range? string

```

```

+--rw vty-line
| +--rw ingress-acl-sets
| | +--rw ingress-acl-set* [acl-type]
| |   +--rw acl-type   -> ../config/acl-type
| |   +--rw config
| |     +--rw acl-type?  ipi-acl-types:acl_vty_types_t
| |     +--rw acl-name?  string
| |     +--ro state
| |       +--ro acl-type? ipi-acl-types:acl_vty_types_t
| |       +--ro acl-name? string
| +--rw egress-acl-sets
|   +--rw egress-acl-set* [acl-type]
|     +--rw acl-type   -> ../config/acl-type
|     +--rw config
|       +--rw acl-type? ipi-acl-types:acl_vty_types_t
|       +--rw acl-name? string
|       +--ro state
|         +--ro acl-type? ipi-acl-types:acl_vty_types_t
|         +--ro acl-name? string
+--rw global
  +--ro state
    +--ro counters
      +--ro total-global-acl-entries? yang:counter32

```

rpcs:

```

+---x clear-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-access-list-counters {feature-list:HAVE_ACL}?
| +---w input
|   +---w name  string
+---x clear-ip-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-ip-access-list-counters {feature-list:HAVE_ACL}?
| +---w input
|   +---w name  string
+---x clear-ipv6-access-list-counters-all {feature-list:HAVE_IPV6}?
+---x clear-ipv6-access-list-counters {feature-list:HAVE_IPV6}?
| +---w input

```

```

|   +---w name   string
+---x clear-mac-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-mac-access-list-counters {feature-list:HAVE_ACL}?
|   +---w input
|   +---w name   string
+---x clear-arp-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-arp-access-list-counters {feature-list:HAVE_ACL}?
    +---w input
        +---w name   string

```

notifications:

```

+---n acl-copp-ipv4-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
|   +--ro severity?      cml-data-types:cml_notif_severity_t
|   +--ro eventClass?    cml-data-types:cml_notif_class_t
|   +--ro name?          string
|   +--ro type?          ipi-acl-types:acl_types_t
|   +--ro sequence-id?   uint32
|   +--ro source-address? ipi-acl-types:acl_any_ipv4_src_addr_t
|   +--ro destination-address? ipi-acl-types:acl_any_ipv4_dest_addr_t
+---n acl-copp-ipv6-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
    +--ro severity?      cml-data-types:cml_notif_severity_t
    +--ro eventClass?    cml-data-types:cml_notif_class_t
    +--ro name?          string
    +--ro type?          ipi-acl-types:acl_types_t
    +--ro sequence-id?   uint32
    +--ro source-address? ipi-acl-types:acl_copp_any_ipv6_src_addr_t
    +--ro destination-address? ipi-acl-types:acl_copp_any_ipv6_dest_addr_t

```

ipi-alarms

```

+--rw alarms
  +--ro alarm* [id]
    +--ro id    -> ../state/id
    +--ro state
      +--ro id?      string

```

```

+--ro resource?          string
+--ro text?              string
+--ro time-created?      uint64
+--ro alarm-reported-timestamp? ipi-alarms-types:alarm_date_time_t
+--ro alarm-severity?    ipi-alarms-types:alarm_severity_t
+--ro type-id?           ipi-alarms-types:alarm_type_id_t

```

augment /ipi-platform:components/ipi-platform:component/ipi-platform:state:

```

+--ro component-alarm {feature-list:HAVE_CMMD}?
  +--ro equipment-failure? boolean

```

notifications:

```

+---n alarm
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t
  +--ro id?                string
  +--ro resource?          string
  +--ro text?              string
  +--ro time-created?      uint64
  +--ro alarm-reported-timestamp? ipi-alarms-types:alarm_date_time_t
  +--ro alarm-severity?    ipi-alarms-types:alarm_severity_t
  +--ro type-id?           ipi-alarms-types:alarm_type_id_t
  +--ro is-clear?          boolean

```

ipi-arp

```

+--rw arp
  +--rw entries
    | +--rw entry* [vrf-name ip-address]
    |   +--rw vrf-name   -> ../config/vrf-name
    |   +--rw ip-address  -> ../config/ip-address
    |   +--rw config
    |     | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |     | +--rw ip-address?    inet:ipv4-address

```



```

| | +--rw mac-address          cml-data-types:cml_mac_addr_t
| | +--rw respond-to-arp-request? empty
| +--ro state
|   +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|   +--ro ip-address?         inet:ipv4-address
|   +--ro mac-address         cml-data-types:cml_mac_addr_t
|   +--ro respond-to-arp-request? empty
|   +--ro arp-age?            string
|   +--ro interface-name?     string
|   +--ro physical-interface-name? string
|   +--ro arp-state?          ipi-arp-types:ndd_arp_state_t
|   +--ro interface-state?    ipi-arp-types:ndd_arp_if_type_t
+--rw global {feature-list:HAVE_CUSTOM2_NDD}?
| +--rw config {feature-list:HAVE_CUSTOM2_NDD}?
| | +--rw icmp-redirect? empty
| +--ro state {feature-list:HAVE_CUSTOM2_NDD}?
|   +--ro icmp-redirect? empty
+--rw debug
| +--rw config
| | +--rw enable? empty
| +--ro state
|   +--ro enable?            empty
|   +--ro terminal-debug-status? cml-data-types:cml_on_off_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name    -> ../config/name
|   +--rw config
| | +--rw name?          -> /ipi-interface:interfaces/interface/name
| | +--rw enable-proxy-arp? empty
| | +--rw enable-local-proxy-arp? empty
| | +--rw enable-ip-redirects? empty
| | +--rw arp-ageing-timeout? uint16
| | +--rw arp-reachable-time? uint16
| +--ro state
|   +--ro name?          -> /ipi-interface:interfaces/interface/name
|   +--ro enable-proxy-arp? empty

```

```
|   +--ro enable-local-proxy-arp?  empty
|   +--ro enable-ip-redirects?    empty
|   +--ro arp-ageing-timeout?     uint16
|   +--ro arp-reachable-time?     uint16
+--ro dynamic-arp* [vrf-name]
  +--ro vrf-name          string
  +--ro entry* [ipv4-address]
    | +--ro ipv4-address      inet:ipv4-address
    | +--ro mac-address?     cml-data-types:cml_mac_addr_t
    | +--ro arp-age?         string
    | +--ro interface-name?  string
    | +--ro physical-interface-name? string
    | +--ro arp-state?       ipi-arp-types:ndd_arp_state_t
    | +--ro interface-state? ipi-arp-types:ndd_arp_if_type_t
  +--ro adjacency-summary
    +--ro resolved-arp?    uint32
    +--ro incomplete-arp?  uint32
    +--ro unknown-arp?     uint32
    +--ro total-arp?       uint32
```

rpcs:

```
+---x arp-terminal-debug-on {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
+---x arp-terminal-debug-off {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
+---x clear-arp-entry {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
| +---w input
|   +---w ip-address?  inet:ipv4-address
|   +---w vrf-name?    string
+---x clear-arp-entry-per-interface {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
  +---w input
    +---w if-name      string
    +---w vrf-name?    string
```

ipi-authentication-radius

+--rw authentication-radius {feature-list:HAVE_ENCRYPT_CLEARTEXT}?

 +--rw global

 | +--rw config

 | | +--rw source-address? inet:ipv4-address

 | | +--rw port? uint16

 | | +--rw timeout? uint8

 | | +--rw retransmit-max-retries? uint8

 | | +--rw (key-type)?

 | | +--:(key-string)

 | | | +--rw key-string? string

 | | +--:(encrypted)

 | | +--rw encryption-key? string

 | +--ro state

 | +--ro source-address? inet:ipv4-address

 | +--ro port? uint16

 | +--ro timeout? uint8

 | +--ro retransmit-max-retries? uint8

 | +--ro (key-type)?

 | +--:(key-string)

 | | +--ro key-string? string

 | +--:(encrypted)

 | +--ro encryption-key? string

 +--rw hosts

 +--rw host* [host-address]

 +--rw host-address -> ../config/host-address

 +--rw config

 | +--rw host-address? inet:ipv4-address

 | +--rw host-port? uint16

 | +--rw host-timeout? uint8

 | +--rw host-retransmit-max-retries? uint8

 | +--rw (host-key-type)?

 | +--:(key-string)

 | | +--rw key-string? string

 | +--:(encrypted)

```

|   +--rw encryption-key?      string
+--ro state
|   +--ro host-address?         inet:ipv4-address
|   +--ro host-port?            uint16
|   +--ro host-timeout?         uint8
|   +--ro host-retransmit-max-retries?  uint8
|   +--ro (host-key-type)?
|   | +--:(key-string)
|   | | +--ro key-string?      string
|   | | +--:(encrypted)
|   | | +--ro encryption-key?  string
|   +--ro next-radius-message-id?  uint8
|   +--ro encryption-key-operational?  string
|   +--ro host-port-operational?    uint16
|   +--ro host-timeout-operational?  uint8
|   +--ro host-retransmit-max-retries-operational?  uint8

```

ipi-authentication

```

+--rw authentication {feature-list:HAVE_AUTHD}?
|   +--rw global
|   |   +--rw config
|   |   |   +--rw mac-authentication?  empty {feature-list:HAVE_MAC_AUTH}?
|   |   |   +--rw dot1x-authentication? empty
|   |   |   +--ro state
|   |   |   |   +--ro mac-authentication?  empty {feature-list:HAVE_MAC_AUTH}?
|   |   |   |   +--ro dot1x-authentication? empty
|   +--rw dot1x-interfaces
|   |   +--rw dot1x-interface* [name]
|   |   |   +--rw name                -> ../config/name
|   |   |   +--rw config
|   |   |   |   +--rw name?            -> /ipi-interface:interfaces/interface/name
|   |   |   |   +--rw dot1x-control    ipi-authentication-types:auth_dot1x_control_t
|   |   |   |   +--rw protocol-version? ipi-authentication-types:auth_dot1x_eapol_version_t
|   |   |   +--ro state

```

```

| | +--ro name?          -> /ipi-interface:interfaces/interface/name
| | +--ro dot1x-control   ipi-authentication-types:auth_dot1x_control_t
| | +--ro protocol-version? ipi-authentication-types:auth_dot1x_eapol_version_t
| +--ro auth-dot1x-interface-operational
| | +--ro state
| |   +--ro dot1x-control-operational? ipi-authentication-types:auth_dot1x_control_t
| |   +--ro supplicant-name?          string
| |   +--ro supplicant-mac-address?    ipi-authentication-types:auth_dot1x_mac_address_t
| |   +--ro port-enabled?              boolean
| |   +--ro authentication-abort?      boolean
| |   +--ro authentication-fail?       boolean
| |   +--ro authentication-start?      boolean
| |   +--ro authentication-timeout?    boolean
| |   +--ro authentication-success?    boolean
| |   +--ro key-available?             boolean
| |   +--ro key-tx-enabled?            boolean
| +--ro authentication-control-dir-operational
| | +--ro state
| |   +--ro admin-controlled-directions? ipi-authentication-types:auth_dot1x_control_dir_t
| |   +--ro oper-controlled-directions? ipi-authentication-types:auth_dot1x_control_dir_t
| |   +--ro bridge-detected?          boolean
| +--ro authentication-key-received-operational
| | +--ro state
| |   +--ro rx-key? boolean
| +--rw authenticator-pae
| | +--rw config
| | | +--rw quiet-period?   uint16
| | | +--rw max-reauth-value? uint8
| | | +--rw interval-period? uint16
| | +--ro state
| |   +--ro quiet-period?   uint16
| |   +--ro max-reauth-value? uint8
| |   +--ro interval-period? uint16
| +--ro auth-authenticator-pae-operational
| | +--ro state
| |   +--ro quiet-period-operational? uint16

```

```

| | +--ro max-reauth-value-operational? uint8
| | +--ro interval-period-operational? uint16
| | +--ro port-status? ipi-authentication-types:auth_dot1x_port_status_t
| | +--ro pae-state? ipi-authentication-types:auth_dot1x_pae_state_t
| | +--ro port-mode? ipi-authentication-types:auth_dot1x_port_ctrl_t
| | +--ro reauth-count? uint32
| | +--ro rx-response-id? uint32
| +--rw reauthentication-timer
| | +--rw config
| | | +--rw reauthentication-period? uint32
| | | +--rw enable-reauthentication? empty
| | | +--rw enable-mac-auth-bypass? ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
| | +--ro state
| | +--ro reauthentication-period? uint32
| | +--ro enable-reauthentication? empty
| | +--ro enable-mac-auth-bypass? ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
| +--ro reauthentication-timer-operational
| | +--ro state
| | +--ro reauthentication-period-operational? uint32
| | +--ro enable-reauthentication-operational? empty
| | +--ro dot1x-timer? ipi-authentication-types:auth_mac_dot1x_timer_status_t {feature-
list:HAVE_MAC_AUTH}?
| | +--ro mac-status? ipi-authentication-types:auth_mac_status_t {feature-
list:HAVE_MAC_AUTH}?
| | +--ro last-rejected-mac? ipi-authentication-types:auth_dot1x_mac_address_t {feature-
list:HAVE_MAC_AUTH}?
| +--rw authenticator-be
| | +--rw config
| | | +--rw supplicant-timeout? uint16
| | | +--rw server-timeout? uint16
| | +--ro state
| | +--ro supplicant-timeout? uint16
| | +--ro server-timeout? uint16
| +--ro authenticator-be-operational
| +--ro state
| +--ro supplicant-timeout-operational? uint16

```

```

|      +--ro server-timeout-operational?   uint16
|      +--ro current-id?                   uint8
|      +--ro be-state?                     ipi-authentication-types:auth_be_state_t
|      +--ro req-count?                    uint8
|      +--ro id-from-server?               uint8
+--rw mac-interfaces {feature-list:HAVE_MAC_AUTH}?
| +--rw mac-interface* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|     | +--rw name?          -> /ipi-interface:interfaces/interface/name
|     | +--rw mac-control    empty
|     | +--rw mac-mode?      ipi-authentication-types:auth_mac_mode_t
|     | +--rw dynamic-vlan-creation? empty
|     | +--rw mac-address-aging? empty
|     +--ro state
|       +--ro name?          -> /ipi-interface:interfaces/interface/name
|       +--ro mac-control    empty
|       +--ro mac-mode?      ipi-authentication-types:auth_mac_mode_t
|       +--ro dynamic-vlan-creation? empty
|       +--ro mac-address-aging? empty
+--rw debug
  +--rw config
  | +--rw options? ipi-authentication-types:auth_dot1x_debug_t
  +--ro state
    +--ro options? ipi-authentication-types:auth_dot1x_debug_t
    +--ro terminal-debug-status? ipi-authentication-types:auth_dot1x_debug_t

```

rpcs:

```

+---x dot1x-authentication-initialize-interface {feature-list:HAVE_MAC_AUTH}?
| +---w input
|   +---w name  string
+---x dot1x-authentication-snmp-restart {feature-list:HAVE_SNMP}?
+---x dot1x-authentication-terminal-debug-on {feature-list:HAVE_AUTHD}?
| +---w input
|   +---w terminal-debug-options ipi-authentication-types:auth_dot1x_debug_t
+---x dot1x-authentication-terminal-debug-off {feature-list:HAVE_AUTHD}?

```

```
+---w input
  +---w terminal-debug-options  ipi-authentication-types:auth_dot1x_debug_t
```

ipi-bfd

```
+--rw bfd
  +--rw global
    | +--rw config
    | | +--rw notification-enabled?  boolean {feature-list:HAVE_BFD_MONO}?
    | | +--rw echo-mode-enabled?     empty {feature-list:HAVE_BFD_MONO}?
    | | +--rw slow-tx-interval?      uint32 {feature-list:HAVE_BFD_MONO}?
    | +--ro state
    | | +--ro notification-enabled?   boolean {feature-list:HAVE_BFD_MONO}?
    | | +--ro echo-mode-enabled?      empty {feature-list:HAVE_BFD_MONO}?
    | | +--ro slow-tx-interval?       uint32 {feature-list:HAVE_BFD_MONO}?
    | | +--ro start-time?             yang:timeticks {feature-list:HAVE_BFD_MONO}?
    | | +--ro administrative-state?   ipi-bfd-types:oambfd_admin_state_t {feature-list:HAVE_BFD_MONO}?
    | | +--ro image-type?             ipi-bfd-types:oambfd_image_type_t {feature-list:HAVE_BFD_MONO}?
    | | +--ro next-session-discriminator? string {feature-list:HAVE_BFD_MONO}?
    | | +--ro counters
    | | | +--ro total-sessions? yang:counter32
    | +--rw multihop-peer-intervals
    | | +--rw multihop-peer-interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier]
    | | {feature-list:HAVE_BFD_MONO}?
    | | | +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
    | | | +--rw required-minimum-rx-interval -> ../config/required-minimum-rx-interval
    | | | +--rw detection-multiplier         -> ../config/detection-multiplier
    | | +--rw config
    | | | +--rw desired-minimum-tx-interval?  uint32
    | | | +--rw required-minimum-rx-interval? uint32
    | | | +--rw detection-multiplier?        uint8
    | +--ro state
```



```

| |   +--ro desired-minimum-tx-interval?  uint32
| |   +--ro required-minimum-rx-interval?  uint32
| |   +--ro detection-multiplier?         uint8
| +--rw intervals
|   +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
|     +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
|     +--rw required-minimum-rx-interval  -> ../config/required-minimum-rx-interval
|     +--rw detection-multiplier          -> ../config/detection-multiplier
|     +--rw config
|       | +--rw desired-minimum-tx-interval?  uint32
|       | +--rw required-minimum-rx-interval?  uint32
|       | +--rw detection-multiplier?         uint8
|       +--ro state
|         +--ro desired-minimum-tx-interval?  uint32
|         +--ro required-minimum-rx-interval?  uint32
|         +--ro detection-multiplier?         uint8
+--rw peers
| +--rw peer* [remote-address]
|   +--rw remote-address  -> ../config/remote-address
|   +--rw config
|     | +--rw remote-address?  inet:ip-address
|     +--ro state
|       | +--ro remote-address?  inet:ip-address
|       +--rw intervals
|         | +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
|         |   +--rw desired-minimum-tx-interval  -> ../config/desired-minimum-tx-interval
|         |   +--rw required-minimum-rx-interval  -> ../config/required-minimum-rx-interval
|         |   +--rw detection-multiplier          -> ../config/detection-multiplier
|         |   +--rw config
|         |     | +--rw desired-minimum-tx-interval?  uint32
|         |     | +--rw required-minimum-rx-interval?  uint32
|         |     | +--rw detection-multiplier?         uint8
|         |     +--ro state
|         |       +--ro desired-minimum-tx-interval?  uint32
|         |       +--ro required-minimum-rx-interval?  uint32

```

```

| |   +--ro detection-multiplier?      uint8
| +--rw authentication
|   +--rw config
|     | +--rw key-type?                ipi-bfd-types:bfd_multihop_auth_type_t
|     | +--rw (key-option)?
|     |   +--:(key-id)
|     |   | +--rw key-id?              uint32
|     |   | +--rw key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
|     |   | +--rw key-string?         string
|     |   +--:(key-chain)
|   +--ro state
|     +--ro key-type?                ipi-bfd-types:bfd_multihop_auth_type_t
|     +--ro (key-option)?
|     | +--:(key-id)
|     | | +--ro key-id?              uint32
|     | | +--ro key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
|     | | +--ro key-string?         string
|     | +--:(key-chain)
+--rw debug
| +--rw config
| | +--rw options?                    ipi-bfd-types:bfd_debug_t
| | +--rw enable-oam-srv6? empty {feature-list:HAVE_SRV6}?
| +--ro state
|   +--ro options?                    ipi-bfd-types:bfd_debug_t
|   +--ro enable-oam-srv6?          empty {feature-list:HAVE_SRV6}?
|   +--ro terminal-debug-status? ipi-bfd-types:bfd_debug_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name                      -> ../config/name
|   +--rw config
|     | +--rw name?                  -> /ipi-interface:interfaces/interface/name
|     | +--rw bfd-disabled?         empty
|     | +--rw bfd-session-type? ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
|   +--ro state
|     | +--ro name?                  -> /ipi-interface:interfaces/interface/name
|     | +--ro bfd-disabled?         empty

```

```

| | +--ro bfd-session-type? ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
| | +--ro interface-index? uint32
| | +--ro interface-state? ipi-bfd-types:oambfd_if_state_t
| +--rw intervals
| | +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
| | +--rw desired-minimum-tx-interval -> ../config/desired-minimum-tx-interval
| | +--rw required-minimum-rx-interval -> ../config/required-minimum-rx-interval
| | +--rw detection-multiplier -> ../config/detection-multiplier
| | +--rw config
| | | +--rw desired-minimum-tx-interval? uint32
| | | +--rw required-minimum-rx-interval? uint32
| | | +--rw detection-multiplier? uint8
| | +--ro state
| | +--ro desired-minimum-tx-interval? uint32
| | +--ro required-minimum-rx-interval? uint32
| | +--ro detection-multiplier? uint8
| +--rw echo
| | +--rw config
| | | +--rw ipv4-source? inet:ipv4-address
| | | +--rw required-minimum-tx-interval? uint32
| | +--ro state
| | +--ro ipv4-source? inet:ipv4-address
| | +--ro required-minimum-tx-interval? uint32
| +--rw authentication
| | +--rw config
| | | +--rw key-type? ipi-bfd-types:bfd_multihop_auth_type_t
| | | +--rw (key-option)?
| | | +--:(key-id)
| | | | +--rw key-id? uint32
| | | | +--rw key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
| | | | +--rw key-string? string
| | | +--:(key-chain)
| | +--ro state
| | +--ro key-type? ipi-bfd-types:bfd_multihop_auth_type_t
| | +--ro (key-option)?
| | +--:(key-id)

```

```

| | | +--ro key-id?      uint32
| | | +--ro key-encrypted? ipi-bfd-types:oambfd_encrypt_key_t
| | | +--ro key-string?   string
| |   +---:(key-chain)
|   +--rw sessions
|     +--rw session* [local-address remote-address session-type]
|       +--rw local-address  -> ../config/local-address
|       +--rw remote-address -> ../config/remote-address
|       +--rw session-type   -> ../config/session-type
|       +--rw config
|         +--rw local-address?   inet:ip-address
|         +--rw remote-address?  inet:ip-address
|         +--rw session-type?    ipi-bfd-types:bfd_session_type_t
|         +--rw administrative-down? empty
|         +--rw non-persistent?  empty
|       +--ro state
|         +--ro local-address?   inet:ip-address
|         +--ro remote-address?  inet:ip-address
|         +--ro session-type?    ipi-bfd-types:bfd_session_type_t
|         +--ro administrative-down? empty
|         +--ro non-persistent?  empty
+--ro sessions
  +--ro session* [local-discriminator vrf-name]
    +--ro local-discriminator -> ../state/local-discriminator
    +--ro vrf-name            -> ../state/vrf-name
    +--ro state
      +--ro counters
        +--ro packets
          +--ro ipv4
            +--ro received?      yang:counter64
            +--ro transmitted?   yang:counter64
            +--ro echo-transmitted? yang:counter64
            +--ro ipv6 {feature-list:HAVE_IPV6}?
              +--ro received?      yang:counter64
              +--ro transmitted?   yang:counter64
              +--ro echo-transmitted? yang:counter64

```

```

| | | +--ro up-transitions? yang:counter32
| | +--ro lower-layer-type?      ipi-bfd-types:oambfd_sess_lower_layer_t
| | +--ro uptime?                yang:timeticks
| | +--ro version?               uint32
| | +--ro local-port?            inet:port-number
| | +--ro remote-port?           inet:port-number
| | +--ro negotiated-detection-multiplier? uint8
| | +--ro forward-hello-timer-hits?   uint32
| | +--ro remote-heard?            empty
| | +--ro fate-shared?            empty
| | +--ro remote-administrative-down? empty
| | +--ro remote-demand-mode-enabled? empty
| | +--ro remote-echo-enabled?      empty
| | +--ro poll-bit?               empty
| | +--ro storage-type?            ipi-bfd-types:bfd_storage_type_t
| | +--ro downtime?               yang:timeticks
| | +--ro discontinuity-time?      yang:timeticks
| | +--ro authentication-key-id?    uint32
| | +--ro last-up-time?            yang:timeticks
| | +--ro hold-down-timer?         uint32
| | +--ro hold-down-timer-hits?    uint32
| | +--ro session-type-status?      ipi-bfd-types:oambfd_session_type_status_t
| | +--ro remote-address?          inet:ip-address
| | +--ro local-address?           inet:ip-address
| | +--ro vrf-name?               string
| | +--ro interface-index?         uint32
| | +--ro interface-name?          string
| | +--ro remote-discriminator?     string
| | +--ro local-discriminator?      string
| | +--ro session-state?            ipi-bfd-types:oambfd_session_state_t
| | +--ro session-type?             ipi-bfd-types:bfd_session_type_state_t
| | +--ro session-diagnostics?      ipi-bfd-types:oambfd_perform_diag_t
| | +--ro negotiated-tx-interval?    uint32
| | +--ro negotiated-rx-interval?    uint32
| +--ro micro-bfd-sessions {feature-list:HAVE_BFD_HW_OFFLOAD}?
| +--ro interface* [member-interface] {feature-list:HAVE_BFD_HW_OFFLOAD}?

```

```

| | +--ro member-interface -> ../state/member-interface
| | +--ro state
| |   +--ro member-interface?      -> /ipi-interface:interfaces/interface/name
| |   +--ro remote-session-state?   ipi-bfd-types:oambfd_session_state_t
| |   +--ro remote-session-diagnostics? ipi-bfd-types:oambfd_perform_diag_t
| |   +--ro interface-index?        uint32
| |   +--ro interface-name?         string
| |   +--ro remote-discriminator?   string
| |   +--ro local-discriminator?    string
| |   +--ro microbfd-local-discriminator? string
| |   +--ro session-state?          ipi-bfd-types:oambfd_session_state_t
| |   +--ro session-type?           ipi-bfd-types:bfd_session_type_state_t
| |   +--ro session-diagnostics?    ipi-bfd-types:oambfd_perform_diag_t
| |   +--ro negotiated-tx-interval?  uint32
| |   +--ro negotiated-rx-interval?  uint32
| +--ro echo
| | +--ro state
| |   +--ro local-echo-port?        inet:port-number
| |   +--ro echo-desired-minimum-tx-interval? uint32
| |   +--ro echo-required-minimum-rx-interval? uint32
| |   +--ro negotiated-interval?     uint32
| +--ro mpls {feature-list:HAVE_CUSTOM1_MPLS_BFD}?
| | +--ro state {feature-list:HAVE_MPLS_OAM}?
| | | +--ro fec-address?            inet:ipv4-address
| | | +--ro lsp-type?               ipi-bfd-types:oambfd_mpls_lsp_type_t
| | | +--ro tunnel-name?            string
| | | +--ro tunnel-label?           uint32
| | | +--ro ftn-index?              uint32
| | | +--ro lsp-ping-interval?      uint32
| | | +--ro minimum-tx?             uint32
| | | +--ro minimum-rx?             uint32
| | | +--ro detection-multiplier?   uint8
| | +--ro virtual-circuit-connectivity-verification
| | | +--ro state {feature-list:HAVE_VCCV}?
| | |   +--ro vc-identifier?        uint32
| | |   +--ro incoming-vc-label?    uint32

```

```

| | | +--ro outgoing-vc-label?          uint32
| | | +--ro control-channel-type?       ipi-bfd-types:oambfd_mpls_cc_type_t
| | | +--ro connectivity-verification-type? ipi-bfd-types:oambfd_mpls_cv_type_t
| | | +--ro attachment-circuit-index?   uint32
| | | +--ro tunnel-label?               uint32
| | | +--ro peer-address?               inet:ipv4-address
| | +--ro transport-profile
| +--ro packet
| +--ro clients
|   +--ro client* [index]
|     +--ro index  -> ../state/index
|     +--ro state
|       +--ro index? uint32
|       +--ro flags? ipi-bfd-types:oambfd_client_flags_t
+--ro mpls-lsp
| +--ro summary
| | +--ro state
| |   +--ro number-of-sessions?          uint32
| |   +--ro number-of-sessions-up?       uint32
| |   +--ro number-of-sessions-down?     uint32
| |   +--ro number-of-sessions-admin-down? uint32
| +--ro egress-sessions
| | +--ro egress-session* [local-discriminator]
| |   +--ro local-discriminator  -> ../state/local-discriminator
| |   +--ro state
| |     +--ro local-multiplier?   uint32
| |     +--ro fec-address?        cml-data-types:cml_ipv4_addr_prefix_t
| |     +--ro local-discriminator? string
| |     +--ro remote-discriminator? string
| |     +--ro source-port?        inet:port-number
| |     +--ro destination-port?   inet:port-number
| +--ro session-groups
|   +--ro session-group* [lsp-type fec-address]
|     +--ro lsp-type  -> ../state/lsp-type
|     +--ro fec-address -> ../state/fec-address
|     +--ro state

```

```

|   | +--ro lsp-type?    ipi-bfd-types:mpls_bfd_lsp_type_t
|   | +--ro fec-address? cml-data-types:cml_ipv4_addr_prefix_t
|   +--ro sessions
|       +--ro session* [lsp-type]
|           +--ro lsp-type    -> ../state/lsp-type
|           +--ro state
|               | +--ro lsp-type?          ipi-bfd-types:mpls_bfd_all_lsp_type_t
|               | +--ro ip-encapsulation?    empty
|               | +--ro remote-multiplier?    uint32
|               | +--ro fec-address?          cml-data-types:cml_ipv4_addr_prefix_t
|               | +--ro local-discriminator?  string
|               | +--ro remote-discriminator? string
|               | +--ro source-port?          inet:port-number
|               | +--ro destination-port?     inet:port-number
|               | +--ro session-index?        uint32
|               | +--ro local-state?          ipi-bfd-types:mpls_bfd_session_state_t
|               | +--ro remote-state?         ipi-bfd-types:mpls_bfd_session_state_t
|               | +--ro local-diagnostic?     ipi-bfd-types:mpls_bfd_diag_info_t
|               | +--ro remote-diagnostic?    ipi-bfd-types:mpls_bfd_diag_info_t
|               | +--ro negotiated-tx-interval? uint32
|               | +--ro negotiated-rx-interval? uint32
|           +--ro statistics
|               +--ro state
|                   +--ro create-time?        yang:timeticks
|                   +--ro last-down-time?     yang:timeticks
|                   +--ro last-up-time?       yang:timeticks
|                   +--ro down-count?         yang:counter32
|                   +--ro admin-down-count?   yang:counter32
|                   +--ro receive-packet-count? yang:counter64
|                   +--ro send-packet-count?  yang:counter64
+--ro mpls-te
    +--ro summary
    | +--ro state
    | +--ro number-of-sessions?        uint32
    | +--ro number-of-sessions-up?     uint32
    | +--ro number-of-sessions-down?   uint32

```

```

|   +--ro number-of-sessions-admin-down?  uint32
+--ro egress-sessions
|   +--ro egress-session* [fec-address]
|   |   +--ro fec-address   -> ../state/fec-address
|   |   +--ro state
|   |   |   +--ro local-multiplier?      uint32
|   |   |   +--ro fec-address?          cml-data-types:cml_ipv4_addr_prefix_t
|   |   |   +--ro local-discriminator?  string
|   |   |   +--ro remote-discriminator? string
|   |   |   +--ro source-port?          inet:port-number
|   |   |   +--ro destination-port?     inet:port-number
+--ro mpls-tunnels
|   +--ro mpls-tunnel* [lsp-type tunnel-name]
|   |   +--ro lsp-type      -> ../state/lsp-type
|   |   +--ro tunnel-name  -> ../state/tunnel-name
|   |   +--ro state
|   |   |   +--ro lsp-type?   ipi-bfd-types:mpls_bfd_te_type_t
|   |   |   +--ro tunnel-name? string
+--ro sessions
|   +--ro session* [lsp-type]
|   |   +--ro lsp-type      -> ../state/lsp-type
|   |   +--ro state
|   |   |   +--ro lsp-type?      ipi-bfd-types:mpls_bfd_all_lsp_type_t
|   |   |   +--ro ip-encapsulation?  empty
|   |   |   +--ro remote-multiplier?  uint32
|   |   |   +--ro fec-address?      cml-data-types:cml_ipv4_addr_prefix_t
|   |   |   +--ro local-discriminator?  string
|   |   |   +--ro remote-discriminator? string
|   |   |   +--ro source-port?      inet:port-number
|   |   |   +--ro destination-port?  inet:port-number
|   |   |   +--ro session-index?    uint32
|   |   |   +--ro local-state?      ipi-bfd-types:mpls_bfd_session_state_t
|   |   |   +--ro remote-state?     ipi-bfd-types:mpls_bfd_session_state_t
|   |   |   +--ro local-diagnostic?  ipi-bfd-types:mpls_bfd_diag_info_t
|   |   |   +--ro remote-diagnostic? ipi-bfd-types:mpls_bfd_diag_info_t
|   |   |   +--ro negotiated-tx-interval? uint32

```

```

| +--ro negotiated-rx-interval? uint32
+--ro statistics
  +--ro state
    +--ro create-time?      yang:timeticks
    +--ro last-down-time?   yang:timeticks
    +--ro last-up-time?     yang:timeticks
    +--ro down-count?       yang:counter32
    +--ro admin-down-count? yang:counter32
    +--ro receive-packet-count? yang:counter64
    +--ro send-packet-count? yang:counter64

```

rpcs:

```

+---x bfd-snmp-restart {feature-list:HAVE_SNMP}?
+---x bfd-terminal-debug-on {feature-list:HAVE_BFD}?
| +---w input
|   +---w terminal-debug-options ipi-bfd-types:bfd_debug_t
+---x bfd-terminal-debug-off {feature-list:HAVE_BFD}?
| +---w input
|   +---w terminal-debug-options ipi-bfd-types:bfd_debug_t
+---x debug-oam-srv6-on {feature-list:HAVE_SRV6}?
+---x debug-oam-srv6-off {feature-list:HAVE_SRV6}?

```

notifications:

```

+---n bfd-session-state-change
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro local-discriminator? string
  +--ro vrf-name?      string
  +--ro session-state? ipi-bfd-types:oambfd_session_state_t
  +--ro session-diagnostics? ipi-bfd-types:oambfd_perform_diag_t

```

ipi-bgp-vrf

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```

+--rw bgp-vrf
  +--rw config
    | +--rw import-map?  string
    | +--rw export-map?  string
    | +--rw rd-string?   string
  +--ro state
    | +--ro counters
    | | +--ro neighbor-rx-tx-stat
    | | | +--ro messages-sent?      uint32
    | | | +--ro messages-received?  uint32
    | | | +--ro bytes-sent?         uint32
    | | | +--ro bytes-received?     uint32
    | | | +--ro opens-sent?        uint32
    | | | +--ro opens-received?     uint32
    | | | +--ro updates-sent?       uint32
    | | | +--ro updates-received?   uint32
    | | | +--ro keepalive-sent?     uint32
    | | | +--ro keepalive-received? uint32
    | | | +--ro notification-sent?  uint32
    | | | +--ro notification-received? uint32
    | | | +--ro route-refresh-sent? uint32
    | | | +--ro route-refresh-received? uint32
    | | | +--ro capabilities-sent?  uint32

```

```

| | | +--ro capabilities-received?  uint32
| | +--ro local-input-output
| | | +--ro active-open?            uint16
| | | +--ro passive-open?          uint16
| | | +--ro open-loops?            uint16
| | | +--ro open-calls?            uint16
| | | +--ro open-received-calls?    uint16
| | | +--ro send-calls?            uint16
| | | +--ro received-calls?        uint16
| | | +--ro write-calls?           uint16
| | | +--ro write-loops?           uint16
| | | +--ro write-loops-yield?     uint16
| | | +--ro read-calls?            uint16
| | | +--ro read-loops?            uint16
| | | +--ro read-loop-yield?       uint16
| | | +--ro process-nlri-yields?   uint16
| | | +--ro process-withdraw-yields? uint16
| | | +--ro read-time-exceed?      uint16
| | | +--ro update-send-pending?   uint16
| | | +--ro update-buffer-not-available? uint16
| | | +--ro update-walk-suspend?   uint16
| | | +--ro yield-in-update?       uint16
| | | +--ro yield-in-pack?         uint16
| | | +--ro no-send-buffer-peer?   uint16
| | | +--ro no-withdraw-buffer-peer? uint16
| | | +--ro yields-in-update-peer-loop? uint16
| | | +--ro no-updates-pending-or-no-buffers? uint16
| | | +--ro no-data-to-write?      uint16
| | | +--ro message-queue-received-error? uint16
| | +--ro sockets
| | | +--ro created?              uint32
| | | +--ro accepted?            uint32
| | | +--ro closed?              uint32
| | | +--ro create-retries?      uint32
| | | +--ro create-failures?     uint32
| | | +--ro fd-close-session?    uint32

```

```

| +--ro import-map?  string
| +--ro export-map?  string
| +--ro rd-string?   string
+--ro next-hop-tracking
| +--ro state
|   +--ro bgp-as?      uint32
|   +--ro router-id?   inet:ipv4-address
|   +--ro configured?  boolean
|   +--ro delay-time?  uint32
|   +--ro received-message-count?  cml-data-types:cml_line_t
|   +--ro ipv4-count?  int32
|   +--ro ipv6-count?  int32
|   +--ro delay-time-remaining?  int32
+--rw route-targets
| +--rw route-target* [rt-rd-string]
|   +--rw rt-rd-string  -> ../config/rt-rd-string
|   +--rw config
|     | +--rw rt-rd-string?  ipi-bgp-types:bgp_route_target_type_t
|     | +--rw direction     ipi-bgp-types:bgp_target_route_type_t
|     +--ro state
|       +--ro rt-rd-string?  ipi-bgp-types:bgp_route_target_type_t
|       +--ro direction     ipi-bgp-types:bgp_target_route_type_t
+--ro bgp-rd
  +--ro bgp-rd-as
  | +--ro state
  |   +--ro brd-as?      uint16
  |   +--ro brd-as-number?  uint32
  +--ro bgp-rd-as4
  | +--ro state
  |   +--ro brd-as4?     uint32
  |   +--ro brd-as-num4? uint16
  +--ro bgp-rd-ip
  | +--ro state
  |   +--ro brd-ip?      inet:ipv4-address
  |   +--ro brd-ip-number?  int32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```

+--rw evpn-service-type {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN}?
  +--rw config
    | +--rw service-type?  cml-data-types:cml_evpn_service_type_t
  +--ro state
    +--ro service-type?  cml-data-types:cml_evpn_service_type_t

```

ipi-bgp

```

+--rw bgp
  +--rw global
    | +--rw config
    | | +--rw enable-aggregate-nexthop?    empty
    | | +--rw enable-path-select?          empty
    | | +--rw disable-rfc7606-error-handling? empty
    | | +--rw enable-bogon-filtering?      empty
    | | +--rw enable-extended-asn-capability? empty {feature-list:HAVE_EXT_CAP_ASN}?
    | | +--rw enable-nexthop-tracking?     empty
    | | +--rw nexthop-tracking-delay?      uint8
    | | +--rw enable-rfc-1771-strict-origin? empty
    | +--ro state
    | | +--ro enable-aggregate-nexthop?    empty
    | | +--ro enable-path-select?          empty
    | | +--ro disable-rfc7606-error-handling? empty
    | | +--ro enable-bogon-filtering?      empty
    | | +--ro enable-extended-asn-capability? empty {feature-list:HAVE_EXT_CAP_ASN}?
    | | +--ro enable-nexthop-tracking?     empty
    | | +--ro nexthop-tracking-delay?      uint8
    | | +--ro enable-rfc-1771-strict-origin? empty
    | +--rw community-lists
    | | +--rw numbered-lists
    | | | +--rw numbered-list* [standard-number]
    | | |   +--rw standard-number    -> ../config/standard-number
    | | |   +--rw config
    | | |   | +--rw standard-number?  uint32
    | | |   +--ro state
    | | |   | +--ro standard-number?  uint32

```

```

| | | +--rw action-for-any
| | | | +--rw config!
| | | | | +--rw action-name  ipi-bgp-types:bgp_community_list_action_t
| | | | | +--ro state
| | | | | +--ro action-name  ipi-bgp-types:bgp_community_list_action_t
| | | +--rw action-list-values
| | |   +--rw action-list-value* [action-standard-number standard-number-value]
| | |     +--rw action-standard-number  -> ../config/action-standard-number
| | |     +--rw standard-number-value  -> ../config/standard-number-value
| | |     +--rw config
| | |       | +--rw action-standard-number?  ipi-bgp-types:bgp_community_list_action_t
| | |       | +--rw standard-number-value?  string
| | |       +--ro state
| | |         +--ro action-standard-number?  ipi-bgp-types:bgp_community_list_action_t
| | |         +--ro standard-number-value?  string
| | +--rw standards
| | | +--rw standard* [list-type name]
| | |   +--rw list-type      -> ../config/list-type
| | |   +--rw name          -> ../config/name
| | |   +--rw config
| | |     | +--rw list-type?  ipi-bgp-types:bgp_community_list_type_t
| | |     | +--rw name?      string
| | |     +--ro state
| | |     | +--ro list-type?  ipi-bgp-types:bgp_community_list_type_t
| | |     | +--ro name?      string
| | |   +--rw action-for-any
| | |   | +--rw config!
| | |   | | +--rw action-name  ipi-bgp-types:bgp_community_list_action_t
| | |   | | +--ro state
| | |   | | +--ro action-name  ipi-bgp-types:bgp_community_list_action_t
| | |   +--rw action-values
| | |     +--rw action-value* [action-name-standard community-value-standard]
| | |     +--rw action-name-standard  -> ../config/action-name-standard
| | |     +--rw community-value-standard  -> ../config/community-value-standard
| | |     +--rw config
| | |       | +--rw action-name-standard?  ipi-bgp-types:bgp_community_list_action_t

```

```

| | | | +--rw community-value-standard? string
| | | +--ro state
| | | +--ro action-name-standard? ipi-bgp-types:bgp_community_list_action_t
| | | +--ro community-value-standard? string
| | +--rw expanded-lists
| | | +--rw expanded-list* [list-type expanded-type]
| | | +--rw list-type -> ../config/list-type
| | | +--rw expanded-type -> ../config/expanded-type
| | | +--rw config
| | | | +--rw list-type? ipi-bgp-types:bgp_expanded_list_t
| | | | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | +--ro state
| | | | +--ro list-type? ipi-bgp-types:bgp_expanded_list_t
| | | | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | | +--rw action-values
| | | +--rw action-value* [action-expanded regular-expression-list]
| | | +--rw action-expanded -> ../config/action-expanded
| | | +--rw regular-expression-list -> ../config/regular-expression-list
| | | +--rw config
| | | | +--rw action-expanded? ipi-bgp-types:bgp_community_list_action_t
| | | | +--rw regular-expression-list? cml-data-types:cml_line_t
| | | +--ro state
| | | +--ro action-expanded? ipi-bgp-types:bgp_community_list_action_t
| | | +--ro regular-expression-list? cml-data-types:cml_line_t
| | +--rw extended-community
| | | +--rw numbered-lists
| | | | +--rw numbered-list* [standard-number]
| | | | +--rw standard-number -> ../config/standard-number
| | | | +--rw config
| | | | | +--rw standard-number? uint32
| | | | +--ro state
| | | | | +--ro standard-number? uint32
| | | | +--rw action-values
| | | | +--rw action-value* [extended-action-number extended-route-target-soo extended-value]
| | | | +--rw extended-action-number -> ../config/extended-action-number
| | | | +--rw extended-route-target-soo -> ../config/extended-route-target-soo

```



```

| | | | +--rw extended-value      -> ../config/extended-value
| | | | +--rw config
| | | | | +--rw extended-action-number?  ipi-bgp-types:bgp_community_list_action_t
| | | | | +--rw extended-route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | | | +--rw extended-value?         string
| | | | +--ro state
| | | | | +--ro extended-action-number?  ipi-bgp-types:bgp_community_list_action_t
| | | | | +--ro extended-route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | | | +--ro extended-value?         string
| | | +--rw standards
| | | | +--rw standard* [name]
| | | | | +--rw name      -> ../config/name
| | | | | +--rw config
| | | | | | +--rw name?  string
| | | | | +--ro state
| | | | | | +--ro name?  string
| | | | | +--rw action-values
| | | | | | +--rw action-value* [extended-action route-target-soo value]
| | | | | | +--rw extended-action  -> ../config/extended-action
| | | | | | +--rw route-target-soo  -> ../config/route-target-soo
| | | | | | +--rw value      -> ../config/value
| | | | | | +--rw config
| | | | | | | +--rw extended-action?  ipi-bgp-types:bgp_community_list_action_t
| | | | | | | +--rw route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | | | | | +--rw value?           string
| | | | | | +--ro state
| | | | | | | +--ro extended-action?  ipi-bgp-types:bgp_community_list_action_t
| | | | | | | +--ro route-target-soo? ipi-bgp-types:bgp_route_target_t
| | | | | | | +--ro value?           string
| | | +--rw expanded-lists
| | | | +--rw expanded-list* [list-type expanded-type]
| | | | | +--rw list-type  -> ../config/list-type
| | | | | +--rw expanded-type  -> ../config/expanded-type
| | | | | +--rw config
| | | | | | +--rw list-type?  ipi-bgp-types:bgp_ext_expanded_list_t
| | | | | | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t

```

```
| | |   +--ro state
| | |   | +--ro list-type?   ipi-bgp-types:bgp_ext_expanded_list_t
| | |   | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| | |   +--rw action-values
| | |       +--rw action-value* [action value]
| | |           +--rw action   -> ../config/action
| | |           +--rw value    -> ../config/value
| | |           +--rw config
| | |               | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| | |               | +--rw value?  cml-data-types:cml_line_t
| | |               +--ro state
| | |                   +--ro action? ipi-bgp-types:bgp_community_list_action_t
| | |                   +--ro value?  cml-data-types:cml_line_t
| | +--rw large-community
| |   +--rw numbered-lists
| |   | +--rw numbered-list* [standard-number]
| |   |   +--rw standard-number -> ../config/standard-number
| |   |   +--rw config
| |   |       | +--rw standard-number? uint32
| |   |       +--ro state
| |   |       | +--ro standard-number? uint32
| |   |       +--rw action-values
| |   |           +--rw action-value* [large-action-number large-value]
| |   |               +--rw large-action-number -> ../config/large-action-number
| |   |               +--rw large-value        -> ../config/large-value
| |   |               +--rw config
| |   |                   | +--rw large-action-number? ipi-bgp-types:bgp_community_list_action_t
| |   |                   | +--rw large-value?        cml-data-types:cml_line_t
| |   |                   +--ro state
| |   |                       +--ro large-action-number? ipi-bgp-types:bgp_community_list_action_t
| |   |                       +--ro large-value?        cml-data-types:cml_line_t
| |   +--rw standard-lists
| |   | +--rw standard-list* [list-type standard-type]
| |   |   +--rw list-type   -> ../config/list-type
| |   |   +--rw standard-type -> ../config/standard-type
| |   |   +--rw config
```

```

| | | | +--rw list-type?   ipi-bgp-types:bgp_standard_list_t
| | | | +--rw standard-type? ipi-bgp-types:bgp_standard_list_type_t
| | | | +--ro state
| | | | +--ro list-type?   ipi-bgp-types:bgp_standard_list_t
| | | | +--ro standard-type? ipi-bgp-types:bgp_standard_list_type_t
| | | | +--rw action-values
| | | |   +--rw action-value* [action value]
| | | |   +--rw action   -> ../config/action
| | | |   +--rw value    -> ../config/value
| | | |   +--rw config
| | | |     | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| | | |     | +--rw value?  cml-data-types:cml_line_t
| | | |     +--ro state
| | | |       +--ro action? ipi-bgp-types:bgp_community_list_action_t
| | | |       +--ro value?  cml-data-types:cml_line_t
| | +--rw expanded-lists
| |   +--rw expanded-list* [list-type expanded-type]
| |   +--rw list-type      -> ../config/list-type
| |   +--rw expanded-type  -> ../config/expanded-type
| |   +--rw config
| |     | +--rw list-type?   ipi-bgp-types:bgp_large_expanded_list_t
| |     | +--rw expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| |     +--ro state
| |     | +--ro list-type?   ipi-bgp-types:bgp_large_expanded_list_t
| |     | +--ro expanded-type? ipi-bgp-types:bgp_expanded_list_type_t
| |     +--rw action-values
| |       +--rw action-value* [action value]
| |       +--rw action   -> ../config/action
| |       +--rw value    -> ../config/value
| |       +--rw config
| |         | +--rw action? ipi-bgp-types:bgp_community_list_action_t
| |         | +--rw value?  cml-data-types:cml_line_t
| |         +--ro state
| |           +--ro action? ipi-bgp-types:bgp_community_list_action_t
| |           +--ro value?  cml-data-types:cml_line_t
| +--rw as-path-access-lists

```

```

| | +--rw as-path-access-list* [access-list-name access-list-action access-list-regular-expression]
| |   +--rw access-list-name      -> ../config/access-list-name
| |   +--rw access-list-action    -> ../config/access-list-action
| |   +--rw access-list-regular-expression -> ../config/access-list-regular-expression
| |   +--rw config
| |     | +--rw access-list-name?      string
| |     | +--rw access-list-action?    ipi-bgp-types:bgp_community_list_action_t
| |     | +--rw access-list-regular-expression? cml-data-types:cml_line_t
| |     +--ro state
| |       +--ro access-list-name?      string
| |       +--ro access-list-action?    ipi-bgp-types:bgp_community_list_action_t
| |       +--ro access-list-regular-expression? cml-data-types:cml_line_t
| +--rw mpls-l3vpn-label-modes
| | +--rw mpls-l3vpn-label-mode* [address-family-name vrf-name] {feature-list:HAVE_MPLS}?
| |   +--rw address-family-name -> ../config/address-family-name
| |   +--rw vrf-name            -> ../config/vrf-name
| |   +--rw config
| |     | +--rw address-family-name? ipi-bgp-types:bgp_af_config_t
| |     | +--rw vrf-name?            ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |     | +--rw label-alloc-type     ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| |     +--ro state
| |       +--ro address-family-name? ipi-bgp-types:bgp_af_config_t
| |       +--ro vrf-name?            ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |       +--ro label-alloc-type     ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| +--rw mpls-6pe {feature-list:HAVE_MPLS,feature-list:HAVE_6PE}?
| | +--rw config
| | | +--rw enable-per-prefix-label-mode? empty
| | +--ro state
| | | +--ro enable-per-prefix-label-mode? empty
| +--rw debug
| | +--rw config
| | | +--rw options? ipi-bgp-types:bgp_debug_t
| | +--ro state
| | | +--ro terminal-debug-status
| | | +--ro terminal-debug-status? ipi-bgp-types:bgp_debug_t
| +--ro options? ipi-bgp-types:bgp_debug_t

```

```
+--rw bgp-instances
| +--rw bgp-instance* [bgp-as]
|   +--rw bgp-as          -> ../config/bgp-as
|   +--rw config
|     | +--rw bgp-as?          uint32
|     | +--rw router-id?       inet:ipv4-address
|     | +--rw cluster-id?      ipi-bgp-types:bgp_cluster_id_t
|     | +--rw local-preference? uint32
|     | +--rw graceful-shutdown-capable? empty
|     | +--rw graceful-shutdown? empty
|     | +--rw graceful-shutdown-local-preference? uint32
|     | +--rw inbound-route-filter-disable? empty {feature-list:HAVE_VRF}?
|     | +--rw external-route-leak-disable? empty {feature-list:HAVE_VRF}?
|     | +--rw log-neighbor-changes? empty
|     | +--rw scan-interval?    uint32
|     | +--rw best-path-dont-compare-originator? empty
|     | +--rw no-best-path-tie-break? empty
|     | +--rw enable-deterministic-med? empty
|     | +--rw enforce-first-as-for-ebgp? empty
|     | +--rw no-external-fail-over? empty
|     | +--rw local-as-count?   uint8
|     | +--rw no-client-route-reflection? empty
|     | +--rw med-type?         ipi-bgp-types:bgp_med_type_t
|     | +--rw multi-path-relax? empty
|     | +--rw enable-mpls-nexthop-tracking? empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
|     | +--rw ignore-aigp-for-bestpath? empty {feature-list:HAVE_BGP_AIGP}?
|     | +--rw auto-policy-soft-reset? empty
|     +--rw confederation
|       | +--rw config
|       | | +--rw identifier?    uint32
|       | | +--rw peer-as-number* uint32
|       | +--ro state
|       | | +--ro identifier?    uint32
|       | | +--ro peer-as-number* uint32
|       +--rw confederation-vrfs
|         | +--rw confederation-vrf* [confed-vrf-name]
```

```

| | +--rw confed-vrf-name -> ../config/confed-vrf-name
| | +--rw config
| | | +--rw identifier? uint32
| | | +--rw peer-as-number* uint32
| | | +--rw confed-vrf-name? string
| | +--ro state
| |   +--ro identifier? uint32
| |   +--ro peer-as-number* uint32
| |   +--ro confed-vrf-name? string
| +--rw view-lists
| | +--rw view-list* [view-name]
| |   +--rw view-name -> ../config/view-name
| |   +--rw config
| |     +--rw view-name? string
| |   +--ro state
| |     +--ro view-name? string
| +--ro state
| | +--ro version? ipi-bgp-types:bgp_version_t
| | +--ro table-version? int32
| | +--ro total-prefixes? int32
| | +--ro router-run-time-ip-address? inet:ipv4-address
| | +--ro scan-remain-time? uint32
| | +--ro bgp-as? uint32
| | +--ro router-id? inet:ipv4-address
| | +--ro cluster-id? ipi-bgp-types:bgp_cluster_id_t
| | +--ro local-preference? uint32
| | +--ro graceful-shutdown-capable? empty
| | +--ro graceful-shutdown? empty
| | +--ro graceful-shutdown-local-preference? uint32
| | +--ro inbound-route-filter-disable? empty {feature-list:HAVE_VRF}?
| | +--ro external-route-leak-disable? empty {feature-list:HAVE_VRF}?
| | +--ro log-neighbor-changes? empty
| | +--ro scan-interval? uint32
| | +--ro best-path-dont-compare-originator? empty
| | +--ro no-best-path-tie-break? empty
| | +--ro enable-deterministic-med? empty

```

```

| | +--ro enforce-first-as-for-ebgp?      empty
| | +--ro no-external-fail-over?         empty
| | +--ro local-as-count?                uint8
| | +--ro no-client-route-reflection?     empty
| | +--ro med-type?                      ipi-bgp-types:bgp_med_type_t
| | +--ro multi-path-relax?              empty
| | +--ro enable-mpls-nexthop-tracking?   empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
| | +--ro ignore-aigp-for-bestpath?      empty {feature-list:HAVE_BGP_AIGP}?
| | +--ro auto-policy-soft-reset?        empty
| +--rw graceful-restart
| | +--rw config
| | | +--rw enable-graceful-restart?     empty {feature-list:HAVE_RESTART}?
| | | +--rw restart-time?                uint32 {feature-list:HAVE_RESTART}?
| | | +--rw stale-path-max-retention-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--rw route-selection-max-defer-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--rw graceful-reset?              empty
| | +--ro state
| | | +--ro enable-graceful-restart?     empty {feature-list:HAVE_RESTART}?
| | | +--ro restart-time?                uint32 {feature-list:HAVE_RESTART}?
| | | +--ro stale-path-max-retention-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--ro route-selection-max-defer-time? uint32 {feature-list:HAVE_RESTART}?
| | | +--ro graceful-reset?              empty
| +--rw timers
| | +--rw config!
| | | +--rw keep-alive   uint16
| | | +--rw hold-time    uint16
| | +--ro state
| | | +--ro keep-alive   uint16
| | | +--ro hold-time    uint16
| +--rw route-selection
| | +--rw config
| | | +--rw always-compare-med?          empty
| | | +--rw ignore-as-path-length?      empty
| | | +--rw best-path-compare-confed?    empty
| | | +--rw external-compare-router-id?  empty
| | +--ro state

```

```

| | +--ro always-compare-med?      empty
| | +--ro ignore-as-path-length?   empty
| | +--ro best-path-compare-confed? empty
| | +--ro external-compare-router-id? empty
| +--rw administrative-distances
| | +--rw administrative-distance* [source-ip-prefix]
| | +--rw source-ip-prefix  -> ../config/source-ip-prefix
| | +--rw config
| | | +--rw source-ip-prefix? cml-data-types:cml_ipv4_prefix_t
| | | +--rw distance          uint8
| | | +--rw access-list-name? string
| | +--ro state
| | | +--ro source-ip-prefix? cml-data-types:cml_ipv4_prefix_t
| | | +--ro distance          uint8
| | | +--ro access-list-name? string
| +--ro rib
| | +--ro address-family* [afi safi]
| | +--ro afi          -> ../state/afi
| | +--ro safi          -> ../state/safi
| | +--ro state
| | | +--ro afi? ipi-bgp-types:bgp_afi_type_t
| | | +--ro safi? ipi-bgp-types:bgp_safi_type_t
| | +--ro routes
| | | +--ro route* [network-address route-distinguisher]
| | | +--ro network-address  -> ../state/network-address
| | | +--ro route-distinguisher -> ../state/route-distinguisher
| | | +--ro next-hop* [next-hop-address]
| | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | +--ro state
| | | | +--ro next-hop-address? ipi-bgp-types:bgp_hostname_t
| | | | +--ro peer-network-weight? uint32
| | | | +--ro flap-time-reuse-list? string
| | | | +--ro flap-record-duration? string
| | | | +--ro damp-time-to-reuse? string
| | | | +--ro bgp-med-value?      uint32
| | | | +--ro bgp-as-path-string* cml-data-types:cml_line_t

```

				+++ro bgp-as-path-4-byte-string*	string
				+++ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
				+++ro ibgp-metric-route?	int32
				+++ro aggregate-as-route?	int32
				+++ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
				+++ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
				+++ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
				+++ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
				+++ro route-local-preference?	uint32
				+++ro route-prefix-label?	uint32
				+++ro route-community-string?	cml-data-types:cml_line_t
				+++ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
				+++ro route-penalty?	int32
				+++ro route-flap-count?	int32
				+++ro last-update-route?	yang:date-and-time
				+++ro reflector-client-route?	boolean
				+++ro route-dampening-active?	boolean
				+++ro history-route?	boolean
				+++ro nexthop-valid-route?	boolean
				+++ro med-flag-type-route?	boolean
				+++ro valid-route?	boolean
				+++ro stale-route?	boolean
				+++ro route-type?	ipi-bgp-types:bgp_ri_type_t
				+++ro ecmp-multi-candidate-route?	boolean
				+++ro multi-installed-route?	boolean
				+++ro route-synchronized-flag-route?	boolean
				+++ro atomic-aggregate-route?	boolean
				+++ro selected-route?	boolean
				+++ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+++ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
				+++ro ipv4-multicast-capability?	string
				+++ro vpv4-unicast-capability?	string
				+++ro rtfiler-unicast-capability?	string
				+++ro l2vpn-evpn-capability?	string
				+++ro ipv6-unicast-capability?	string
				+++ro ipv6-multicast-capability?	string

```

| | | | +--ro ipv6-label-unicast-capability? string
| | | | +--ro in-label? uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro out-label? uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | +--ro vrf-name? string {feature-list:HAVE_MPLS}?
| | | | +--ro route-distinguisher? string {feature-list:HAVE_MPLS}?
| | | +--ro state
| | |   +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | |   +--ro route-distinguisher? string
| | +--ro evpn-routes
| | | +--ro evpn-route* [route-distinguisher]
| | |   +--ro route-distinguisher -> ../state/route-distinguisher
| | |   +--ro state
| | |     +--ro route-distinguisher? string
| | |     +--ro vrf-name? string
| | |     +--ro mac-ip-route* [host-mac-address host-ip-address ethernet-tag-identifier next-hop-address]
| | |       +--ro host-mac-address -> ../state/host-mac-address
| | |       +--ro host-ip-address -> ../state/host-ip-address
| | |       +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| | |       +--ro next-hop-address -> ../state/next-hop-address
| | |       +--ro state
| | |         +--ro host-mac-address? cml-data-types:cml_mac_addr_t
| | |         +--ro host-ip-address? inet:ip-address
| | |         +--ro ethernet-tag-identifier? uint32
| | |         +--ro next-hop-address? inet:ipv4-address
| | |         +--ro encapsulation-type? string
| | |         +--ro ethernet-segment-identifier? string
| | |         +--ro l2-label? uint32
| | |         +--ro l3-label? uint32
| | |         +--ro inclusive-multicast-route* [ethernet-tag-identifier originating-router-ip-address]
| | |           +--ro ethernet-tag-identifier -> ../state/ethernet-tag-identifier
| | |           +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| | |           +--ro state
| | |             +--ro ethernet-tag-identifier? uint32
| | |             +--ro originating-router-ip-address? inet:ipv4-address
| | |             +--ro next-hop-address? inet:ipv4-address

```

```

| | | | +--ro encapsulation-type?      string
| | | | +--ro ethernet-segment-route* [ethernet-segment-identifier originating-router-ip-address]
| | | | +--ro ethernet-segment-identifier  -> ../state/ethernet-segment-identifier
| | | | +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| | | | +--ro state
| | | |   +--ro ethernet-segment-identifier?  string
| | | |   +--ro originating-router-ip-address? inet:ipv4-address
| | | |   +--ro next-hop-address?             inet:ipv4-address
| | | |   +--ro encapsulation-type?          string
| | | | +--ro ethernet-auto-discovery-route* [ethernet-segment-identifier ethernet-tag-identifier next-hop-address]
| | | | | +--ro ethernet-segment-identifier  -> ../state/ethernet-segment-identifier
| | | | | +--ro ethernet-tag-identifier      -> ../state/ethernet-tag-identifier
| | | | | +--ro next-hop-address            -> ../state/next-hop-address
| | | | | +--ro state
| | | | |   +--ro ethernet-segment-identifier?  string
| | | | |   +--ro ethernet-tag-identifier?      uint32
| | | | |   +--ro next-hop-address?             inet:ipv4-address
| | | | |   +--ro encapsulation-type?          string
| | | | |   +--ro label?                      uint32
| | | | +--ro ip-prefix-route* [ethernet-segment-identifier ethernet-tag-identifier originating-router-ip-address]
| | | | | +--ro ethernet-segment-identifier  -> ../state/ethernet-segment-identifier
| | | | | +--ro ethernet-tag-identifier      -> ../state/ethernet-tag-identifier
| | | | | +--ro originating-router-ip-address -> ../state/originating-router-ip-address
| | | | | +--ro state
| | | | |   +--ro ethernet-segment-identifier?  string
| | | | |   +--ro ethernet-tag-identifier?      uint32
| | | | |   +--ro originating-router-ip-address? inet:ipv4-address
| | | | |   +--ro next-hop-address?             inet:ipv4-address
| | | | |   +--ro encapsulation-type?          string
| | | | |   +--ro l3-label?                   uint32
| | | +--ro link-state {feature-list:HAVE_BGP_LS}?
| | | | +--ro node-nlris
| | | | | +--ro node-nlri* [nlri-key]
| | | | | | +--ro nlri-key  -> ../state/nlri-key
| | | | | | +--ro state
| | | | | | +--ro nlri-key?      string

```

```

| | | | +--ro nlri-origin?      string
| | | | +--ro protocol?        cml-data-types:cml_line_t
| | | | +--ro nlri-identifier?   string
| | | | +--ro nlri-bgp-as?       uint32
| | | | +--ro bgp-router-id?     inet:ipv4-address
| | | | +--ro local-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | | | +--ro local-bgp-as?      uint32 {feature-list:HAVE_BGP_EPE}?
| | | | +--ro ospf-area-id?      inet:ipv4-address
| | | | +--ro ospf-router-id?    inet:ipv4-address
| | | | +--ro isis-lsp-identifier? string
| | | | +--ro designated-router-id? inet:ipv4-address
| | | | +--ro range-size?        uint32
| | | | +--ro base-segment-identifier? uint32
| | | +--ro link-nlris
| | | | +--ro link-nlri* [nlri-key]
| | | |   +--ro nlri-key  -> ../state/nlri-key
| | | |   +--ro state
| | | |     +--ro nlri-key?      string
| | | |     +--ro nlri-origin?   string
| | | |     +--ro protocol?      cml-data-types:cml_line_t
| | | |     +--ro nlri-identifier? string
| | | |     +--ro nlri-bgp-as?    uint32
| | | |     +--ro bgp-router-id?  inet:ipv4-address
| | | |     +--ro local-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | | |     +--ro local-bgp-as?   uint32 {feature-list:HAVE_BGP_EPE}?
| | | |     +--ro ospf-area-id?   inet:ipv4-address
| | | |     +--ro ospf-router-id?  inet:ipv4-address
| | | |     +--ro isis-lsp-identifier? string
| | | |     +--ro designated-router-id? inet:ipv4-address
| | | |     +--ro ospf-remote-area-id? inet:ipv4-address
| | | |     +--ro ospf-remote-router-id? inet:ipv4-address
| | | |     +--ro remote-designated-router-id? inet:ipv4-address
| | | |     +--ro remote-isis-lsp-id? string
| | | |     +--ro remote-bgp-as?   uint32 {feature-list:HAVE_BGP_EPE}?
| | | |     +--ro remote-bgp-router-id? inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | | |     +--ro local-interface-ip? inet:ipv4-address

```

```

| | | | +--ro remote-interface-ip?      inet:ipv4-address
| | | | +--ro igmp-metric-id?           uint8
| | | | +--ro te-metric-id?             uint8
| | | | +--ro adjacent-segment-identifier?  uint32
| | | | +--ro peer-node-segment-identifier?  uint32 {feature-list:HAVE_BGP_EPE}?
| | | | +--ro peer-set-segment-identifier?  uint32 {feature-list:HAVE_BGP_EPE}?
| | | | +--ro peer-adjacency-segment-identifier?  uint32 {feature-list:HAVE_BGP_EPE}?
| | | +--ro prefix-nlris
| | |   +--ro prefix-nlri* [nlri-key]
| | |     +--ro nlri-key   -> ../state/nlri-key
| | |     +--ro state
| | |       +--ro nlri-key?      string
| | |       +--ro nlri-origin?   string
| | |       +--ro protocol?      cml-data-types:cml_line_t
| | |       +--ro nlri-identifier? string
| | |       +--ro nlri-bgp-as?   uint32
| | |       +--ro bgp-router-id?  inet:ipv4-address
| | |       +--ro local-bgp-router-id?  inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
| | |       +--ro local-bgp-as?   uint32 {feature-list:HAVE_BGP_EPE}?
| | |       +--ro ospf-area-id?   inet:ipv4-address
| | |       +--ro ospf-router-id?  inet:ipv4-address
| | |       +--ro isis-lsp-identifier? string
| | |       +--ro ospf-route-type?  cml-data-types:cml_line_t
| | |       +--ro prefix?         inet:ipv4-address
| | |       +--ro prefix-length?   uint32
| | |       +--ro prefix-metric?   uint32
| | |       +--ro N-absolute-bit-flag?  boolean
| | |       +--ro prefix-segment-identifier?  uint32
| | +--ro flowspec-info {feature-list:HAVE_BGP_FLOWSPEC}?
| |   +--ro vrfs
| |     +--ro vrf* [vrf-name]
| |       +--ro vrf-name   -> ../state/vrf-name
| |       +--ro state
| |         | +--ro vrf-name?  string
| |         +--ro flows
| |           +--ro flow* [flow-key]

```

```

| |      +--ro flow-key  -> ../state/flow-key
| |
| |      +--ro state
| |
| |      | +--ro flow-key?  string
| |
| |      +--ro matches
| |
| |      | +--ro ip-addresses
| |
| |      | | +--ro state
| |
| |      | |   +--ro destination-address?  ipi-bgp-types:bgp_ip_addr_t
| |
| |      | |   +--ro source-address?      ipi-bgp-types:bgp_ip_addr_t
| |
| |      | +--ro state
| |
| |      |   +--ro ip-protocol-operator-value*      string
| |
| |      |   +--ro tcp-udp-port-operator-value*      string
| |
| |      |   +--ro tcp-udp-destination-port-operator-value*  string
| |
| |      |   +--ro tcp-udp-source-port-operator-value*  string
| |
| |      |   +--ro packet-length-operator-value*      string
| |
| |      |   +--ro tcp-flags-operator-value*          string
| |
| |      |   +--ro icmp-type-operator-value*          string
| |
| |      |   +--ro icmp-code-operator-value*          string
| |
| |      |   +--ro dscp-operator-value*                string
| |
| |      |   +--ro fragment-operator-value*            string
| |
| |      +--ro actions
| |
| |      +--ro traffic-rate
| |
| |      | +--ro state
| |
| |      | | +--ro rate?      uint32
| |
| |      | | +--ro rate-unit? ipi-bgp-flowspec-types:bgp_flowspec_rate_unit_t
| |
| |      +--ro traffic-action
| |
| |      | +--ro state
| |
| |      | | +--ro terminal-action?  empty
| |
| |      | | +--ro sample-action?    empty
| |
| |      +--ro traffic-redirect
| |
| |      | +--ro state
| |
| |      | | +--ro as-type?          ipi-bgp-flowspec-types:bgp_flowspec_redirect_as_type_t
| |
| |      | | +--ro route-target-as?  string
| |
| |      | | +--ro vrf-id?            uint32
| |
| |      | | +--ro fib-id?            uint32
| |
| |      | | +--ro route-target-ip?  string
| |
| |      +--ro set-dscp

```

```

| | | +--ro state
| | | +--ro dscp? ipi-enhanced-pbr-types:epbr_hex_dscp_t
| | +--rw allocate-label {feature-list:HAVE_BGP_LU}?
| | +--rw config
| | | +--rw all-routes? empty {feature-list:HAVE_BGP_LU}?
| | | +--rw route-map-name? string {feature-list:HAVE_BGP_LU}?
| | +--ro state
| | | +--ro all-routes? empty {feature-list:HAVE_BGP_LU}?
| | | +--ro route-map-name? string {feature-list:HAVE_BGP_LU}?
| | +--rw address-families
| | | +--rw address-family* [afi safi]
| | | | +--rw afi -> ../config/afi
| | | | +--rw safi -> ../config/safi
| | | | +--rw config
| | | | | +--rw afi? ipi-bgp-types:bgp_afi_type_t
| | | | | +--rw safi? ipi-bgp-types:bgp_safi_type_t
| | | | | +--rw additional-path-fast-reroute? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | | +--rw additional-paths-mode? ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | | +--rw additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--rw no-client-route-reflection? empty
| | | | | +--rw multi-path? empty
| | | | | +--rw enable-auto-summary? empty
| | | | | +--rw enable-additional-path-pic? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | | +--rw enable-network-igp-sync? empty
| | | | | +--rw enable-igp-sync? empty
| | | | | +--rw enable-bgp-implicit-null? empty
| | | +--ro state
| | | | +--ro afi? ipi-bgp-types:bgp_afi_type_t
| | | | +--ro safi? ipi-bgp-types:bgp_safi_type_t
| | | | +--ro additional-path-fast-reroute? empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | | +--ro additional-paths-mode? ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-select-all? empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro no-client-route-reflection? empty

```

```

| | | +--ro multi-path?          empty
| | | +--ro enable-auto-summary?    empty
| | | +--ro enable-additional-path-pic?    empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-network-igp-sync?    empty
| | | +--ro enable-igp-sync?          empty
| | | +--ro enable-bgp-implicit-null?    empty
| | +--rw network-lists
| | | +--rw network-list* [local-network-prefix]
| | |   +--rw local-network-prefix  -> ../config/local-network-prefix
| | |   +--rw config
| | |     | +--rw local-network-prefix?  ipi-bgp-types:bgp_ip_network_t
| | |     | +--rw network-rmap-name?    string
| | |     | +--rw backdoor?            empty
| | |     +--ro state
| | |       +--ro network-path-route-count?    int32
| | |       +--ro no-advertise-route?          string
| | |       +--ro no-export-route?            boolean
| | |       +--ro local-as-route?             boolean
| | |       +--ro suppress-route?            boolean
| | |       +--ro network-best-path-route-count?    int32
| | |       +--ro ip-routing-table?          string
| | |       +--ro advertised-non-peer-group-address*  ipi-bgp-types:bgp_hostname_t
| | |       +--ro advertised-peer-group-name-route*  string
| | |       +--ro advertised-any-peer?          boolean
| | |       +--ro route-distinguisher-string?    string {feature-list:HAVE_MPLS}?
| | |       +--ro local-network-prefix?        ipi-bgp-types:bgp_ip_network_t
| | |       +--ro network-rmap-name?          string
| | |       +--ro backdoor?                  empty
| | +--rw aggregate-address-lists
| | | +--rw aggregate-address-list* [aggregate-address]
| | |   +--rw aggregate-address  -> ../config/aggregate-address
| | |   +--rw config
| | |     | +--rw aggregate-address?  cml-data-types:cml_ip_prefix_t
| | |     | +--rw aggregate-type?    ipi-bgp-types:bgp_aggregate_type_t
| | |     +--ro state
| | |       +--ro aggregate-address?  cml-data-types:cml_ip_prefix_t

```

```

| | | +--ro aggregate-type?   ipi-bgp-types:bgp_aggregate_type_t
| | +--rw distances
| | | +--rw distance* [ebgp ibgp local]
| | | +--rw ebgp    -> ../config/ebgp
| | | +--rw ibgp    -> ../config/ibgp
| | | +--rw local   -> ../config/local
| | | +--rw config
| | | | +--rw ebgp?   uint8
| | | | +--rw ibgp?   uint8
| | | | +--rw local?  uint8
| | | +--ro state
| | |   +--ro ebgp?   uint8
| | |   +--ro ibgp?   uint8
| | |   +--ro local?  uint8
| | +--rw maximum-paths
| | | +--rw config
| | | | +--rw ebgp-max-path?  int32
| | | | +--rw ibgp-max-path?  int32
| | | | +--rw eibgp-max-path? int32
| | | +--ro state
| | |   +--ro ebgp-max-path?  int32
| | |   +--ro ibgp-max-path?  int32
| | |   +--ro eibgp-max-path? int32
| | +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--rw config!
| | | | +--rw map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | | | +--rw table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--ro state
| | |   +--ro map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | |   +--ro table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | +--rw route-flap-dampenings
| | | +--rw route-flap-dampening* [enable-dampening]
| | | +--rw enable-dampening -> ../config/enable-dampening
| | | +--rw config
| | | | +--rw enable-dampening? ipi-bgp-types:bgp_dampening_t
| | | | +--rw reach-half-life?  uint32

```

```

| | | | +--rw reuse-penalty?      uint32
| | | | +--rw suppress-penalty?   uint32
| | | | +--rw max-suppress-time?   uint32
| | | | +--rw unreach-half-life?   uint32
| | | | +--rw dampening-rmap-name? string
| | |   +--ro state
| | |     +--ro enable-dampening?   ipi-bgp-types:bgp_dampening_t
| | |     +--ro reach-half-life?    uint32
| | |     +--ro reuse-penalty?      uint32
| | |     +--ro suppress-penalty?   uint32
| | |     +--ro max-suppress-time?   uint32
| | |     +--ro unreach-half-life?   uint32
| | |     +--ro dampening-rmap-name? string
| | |     +--ro maximum-penalty-ceil? int32
| | |     +--ro minimum-penalty-ceil? int32
| |   +--rw route-redistribute-lists
| |     +--rw route-redistribute-list* [protocol-type]
| |       +--rw protocol-type -> ../config/protocol-type
| |       +--rw config
| |         | +--rw protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| |         | +--rw redist-route-map-name string
| |         +--ro state
| |           +--ro protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| |           +--ro redist-route-map-name string
| |   +--rw bgp-redistributes-ospf
| |     +--rw bgp-redistribute-ospf* [ospf-instance-number]
| |       +--rw ospf-instance-number -> ../config/ospf-instance-number
| |       +--rw config
| |         | +--rw ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| |         | +--rw redistribute-ospf-route-map? string
| |         +--ro state
| |           +--ro ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| |           +--ro redistribute-ospf-route-map? string
| |   +--rw bgp-srv6 {feature-list:HAVE_SRV6}?
| |     +--rw config!
| |       | +--rw bgpSRv6enable empty

```

```

| | | +--ro state
| | | | +--ro bgpSRv6enable  empty
| | | | +--rw locators
| | | |   +--rw locator* [bgpSRv6LocatorName]
| | | |     +--rw bgpSRv6LocatorName  -> ../config/bgpSRv6LocatorName
| | | |     +--rw config
| | | |       | +--rw bgpSRv6LocatorName?  string
| | | |       +--ro state
| | | |         +--ro bgpSRv6LocatorName?  string
| | +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| |   +--rw config
| |     | +--rw validation-enable?    empty
| |     | +--rw bestpath-use-validity?  empty
| |     | +--rw bestpath-allow-invalid? empty
| |     +--ro state
| |       +--ro validation-enable?    empty
| |       +--ro bestpath-use-validity? empty
| |       +--ro bestpath-allow-invalid? empty
| +--rw peer-groups
| | +--rw peer-group* [peer-group-tag]
| |   +--rw peer-group-tag  -> ../config/peer-group-tag
| |   +--rw config
| |     | +--rw peer-group-tag?          string
| |     | +--rw peer-group-range          ipi-bgp-types:bgp_peer_group_type_t
| |     | +--rw group-limit?              uint16
| |     | +--rw peer-as?                  uint32
| |     | +--rw graceful-shut?            empty
| |     | +--rw enable-peer-bfd?          empty {feature-list:HAVE_BFD}?
| |     | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| |     | +--rw graceful-shutdown-timer?  uint32
| |     | +--rw peer-restart-time?        uint32 {feature-list:HAVE_RESTART}?
| |     | +--rw peer-description?         cml-data-types:cml_line_t
| |     | +--rw peer-connect-interval?    uint32
| |     | +--rw peer-as-origin-interval?  uint32
| |     | +--rw min-route-advertisement-interval? uint32
| |     | +--rw enable-dynamic-capability? empty

```

```

| | | +--rw collide-established?      empty
| | | +--rw source-identifier?        string
| | | +--rw enforce-multi-hop?        empty
| | | +--rw neighbor-override-capability?  empty
| | | +--rw neighbor-strict-capability-match?  empty
| | | +--rw disallow-infinite-hold-time?  empty
| | | +--rw neighbor-passive?          empty
| | | +--rw peer-shutdown?             empty
| | | +--rw peer-shutdown-description?    cml-data-types:cml_line_t
| | | +--rw peer-port?                  uint16
| | | +--rw bgp-version?                uint8
| | | +--rw enable-ext-opt-param-len?    empty
| | | +--rw tcp-adjust-mss?             uint16
| | +--ro state
| | | +--ro peer-group-tag?             string
| | | +--ro peer-group-range            ipi-bgp-types:bgp_peer_group_type_t
| | | +--ro group-limit?                uint16
| | | +--ro peer-type?                  ipi-bgp-types:bgp_peer_type_t
| | | +--ro peer-as?                    uint32
| | | +--ro graceful-shut?              empty
| | | +--ro enable-peer-bfd?            empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop?    empty {feature-list:HAVE_BFD}?
| | | +--ro graceful-shutdown-timer?     uint32
| | | +--ro peer-restart-time?           uint32 {feature-list:HAVE_RESTART}?
| | | +--ro peer-description?           cml-data-types:cml_line_t
| | | +--ro peer-connect-interval?       uint32
| | | +--ro peer-as-origin-interval?     uint32
| | | +--ro min-route-advertisement-interval?  uint32
| | | +--ro enable-dynamic-capability?    empty
| | | +--ro collide-established?         empty
| | | +--ro source-identifier?           string
| | | +--ro enforce-multi-hop?           empty
| | | +--ro neighbor-override-capability?  empty
| | | +--ro neighbor-strict-capability-match?  empty
| | | +--ro disallow-infinite-hold-time?  empty
| | | +--ro neighbor-passive?            empty

```

```

| | | +--ro peer-shutdown?          empty
| | | +--ro peer-shutdown-description?  cml-data-types:cml_line_t
| | | +--ro peer-port?              uint16
| | | +--ro bgp-version?            uint8
| | | +--ro enable-ext-opt-param-len?  empty
| | | +--ro tcp-adjust-mss?          uint16
| | +--rw timers
| | | +--rw config!
| | | | +--rw keep-alive  uint16
| | | | +--rw hold-time   uint16
| | | | +--ro state
| | | |   +--ro keep-alive  uint16
| | | |   +--ro hold-time   uint16
| | +--rw ebgp-multihop
| | | +--rw config!
| | | | +--rw maximum-hop-count?  uint8
| | | | +--rw enabled              empty
| | | | +--ro state
| | | |   +--ro maximum-hop-count?  uint8
| | | |   +--ro enabled              empty
| | +--rw bgp-passwords
| | | +--rw bgp-password* [password]
| | | | +--rw password -> ../config/password
| | | | +--rw config
| | | | | +--rw password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | +--rw auth-key-encrypt  ipi-bgp-types:bgp_md5_t
| | | | | +--ro state
| | | |   +--ro password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | |   +--ro auth-key-encrypt  ipi-bgp-types:bgp_md5_t
| | +--rw optional-as-lists
| | | +--rw optional-as-list* [optional-as]
| | | | +--rw optional-as -> ../config/optional-as
| | | | +--rw config
| | | | | +--rw optional-as?  uint32
| | | | +--ro state
| | | |   +--ro optional-as?  uint32

```

```

| | +--rw local-as
| | | +--rw local-as-list* [peer-local-as]
| | |   +--rw peer-local-as  -> ../config/peer-local-as
| | |   +--rw config
| | |     +--rw peer-local-as?      uint32
| | |     +--rw no-prepend-local-as? empty
| | |     +--rw replace-local-as?   empty
| | |   +--ro state
| | |     +--ro peer-local-as?      uint32
| | |     +--ro no-prepend-local-as? empty
| | |     +--ro replace-local-as?   empty
| | +--rw address-families
| |   +--rw address-family* [afi safi]
| |     +--rw afi          -> ../config/afi
| |     +--rw safi          -> ../config/safi
| |     +--rw config
| |       +--rw afi?          ipi-bgp-types:bgp_afi_type_t
| |       +--rw safi?         ipi-bgp-types:bgp_safi_type_t
| |       +--rw additional-paths-mode? ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| |         +--rw additional-path-select-all?      empty {feature-list:HAVE_BGP_ADD_PATH}?
| |         +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| |         +--rw route-server-client?              empty
| |         +--rw next-hop-self?                    empty
| |         +--rw activate?                          empty
| |         +--rw default-peer-route-map-name?      empty
| |         +--rw peer-route-map-orig-name?         string
| |         +--rw weight?                           uint16
| |         +--rw flowspec-validation-disable?      empty {feature-list:HAVE_BGP_FLOWSPEC}?
| |         +--rw peer-route-reflector?             empty
| |         +--rw peer-remove-private-as?           empty
| |         +--rw no-send-community?                empty
| |         +--rw no-send-community-type?           ipi-bgp-types:bgp_send_commu_type_t
| |         +--rw neighbor-attribute-unchanged?    ipi-bgp-types:bgp_attribute_unchanged_type_t
| |         +--rw orf-prefix-capability?            ipi-bgp-types:bgp_orf_prefix_type_t
| |         +--rw peer-allow-ebgp-vpn?              empty {feature-list:HAVE_VRF}?
| |         +--rw allow-as-number?                  uint32

```

```

| | | +-rw capability-graceful-restart?      empty
| | | +-rw unsuppress-route-map-name?       string
| | | +-ro state
| | | +-ro afi?                             ipi-bgp-types:bgp_afi_type_t
| | | +-ro safi?                             ipi-bgp-types:bgp_safi_type_t
| | | +-ro additional-paths-mode?           ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +-ro additional-path-select-all?      empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +-ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +-ro route-server-client?             empty
| | | +-ro next-hop-self?                   empty
| | | +-ro activate?                        empty
| | | +-ro default-peer-route-map-name?      empty
| | | +-ro peer-route-map-orig-name?         string
| | | +-ro weight?                          uint16
| | | +-ro flowspec-validation-disable?      empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +-ro peer-route-reflector?            empty
| | | +-ro peer-remove-private-as?          empty
| | | +-ro no-send-community?               empty
| | | +-ro no-send-community-type?          ipi-bgp-types:bgp_send_commu_type_t
| | | +-ro neighbor-attribute-unchanged?    ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +-ro orf-prefix-capability?           ipi-bgp-types:bgp_orf_prefix_type_t
| | | +-ro peer-allow-ebgp-vpn?             empty {feature-list:HAVE_VRF}?
| | | +-ro allow-as-number?                 uint32
| | | +-ro capability-graceful-restart?      empty
| | | +-ro unsuppress-route-map-name?       string
| | | +-rw maximum-prefixes
| | | +-rw maximum-prefix* [prefix-count]
| | | +-rw prefix-count -> ../config/prefix-count
| | | +-rw config
| | | | +-rw prefix-count?                  uint32
| | | | +-rw stop-update?                   empty
| | | | +-rw maximum-prefix-warning?        empty
| | | | +-rw threshold-percentage?          uint8
| | | | +-rw warning-only?                  empty
| | | +-ro state
| | | +-ro prefix-count?                    uint32

```

```

| | | +--ro stop-update?      empty
| | | +--ro maximum-prefix-warning?  empty
| | | +--ro threshold-percentage?  uint8
| | | +--ro warning-only?      empty
| | +--rw distribute-list-filters
| | | +--rw distribute-list-filter* [filter-direction]
| | | +--rw filter-direction  -> ../config/filter-direction
| | | +--rw config
| | | | +--rw access-list-identifier  string
| | | | +--rw filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--ro state
| | | +--ro access-list-identifier  string
| | | +--ro filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw as-list-filters
| | | +--rw as-list-filter* [as-list-direction]
| | | +--rw as-list-direction  -> ../config/as-list-direction
| | | +--rw config
| | | | +--rw as-access-list-identifier  string
| | | | +--rw as-list-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--ro state
| | | +--ro as-access-list-identifier  string
| | | +--ro as-list-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw prefix-list-filters
| | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | +--rw prefix-filter-direction  -> ../config/prefix-filter-direction
| | | +--rw config
| | | | +--rw prefix-list-name      string
| | | | +--rw prefix-filter-direction?  ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--ro state
| | | +--ro prefix-list-name      string
| | | +--ro prefix-filter-direction?  ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw route-map-filters
| | | +--rw route-map-filter* [route-map-direction]
| | | +--rw route-map-direction  -> ../config/route-map-direction
| | | +--rw config
| | | | +--rw route-map-name      string

```

```

| | | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro route-map-name string
| | | | +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw aigp {feature-list:HAVE_BGP_AIGP}?
| | | | +--rw config
| | | | | +--rw admin-status? cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw aigp-send-med? empty
| | | | | +--ro state
| | | | | +--ro admin-status? cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | | | +--ro aigp-send-med? empty
| | | | +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw config!
| | | | | +--rw send-cost-community-id uint8 {feature-list:HAVE_BGP_AIGP}?
| | | | | +--rw point-of-insertion ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | | | +--rw enable-transitive? empty {feature-list:HAVE_BGP_AIGP}?
| | | | | +--ro state
| | | | | +--ro send-cost-community-id uint8 {feature-list:HAVE_BGP_AIGP}?
| | | | | +--ro point-of-insertion ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | | | +--ro enable-transitive? empty {feature-list:HAVE_BGP_AIGP}?
| | | +--ro dynamic-peers
| | | | +--ro dynamic-peer* [dynamic-peer-address]
| | | | +--ro dynamic-peer-address -> ../state/dynamic-peer-address
| | | | +--ro state
| | | | | +--ro counters
| | | | | | +--ro keepalive-in-messages? int32
| | | | | | +--ro keepalive-out-messages? int32
| | | | | | +--ro open-messages-in? int32
| | | | | | +--ro open-messages-out? int32
| | | | | | +--ro as-path-count? int32
| | | | | | +--ro as-path-extended-count? int32
| | | | | | +--ro received-packet-count? int32
| | | | | | +--ro packet-in-queue? int32
| | | | | | +--ro packet-out-queue? int32
| | | | | | +--ro sent-packet-count? int32

```

```

| |      | | ++ro refresh-received-packet-count?  int32
| |      | | ++ro refresh-sent-packet-count?      int32
| |      | | ++ro dynamic-peer-address?           ipi-bgp-types:bgp_ip_addr_t
| |      | | ++ro max-paths-ibgp?                  int16
| |      | | ++ro configured-max-paths-ebgp?       int16
| |      | | ++ro max-paths-ebgp?                  int16
| |      | | ++ro configured-max-paths-ibgp?       int16
| |      | | ++ro max-paths-eibgp?                 int16
| |      | | ++ro configured-max-paths-eibgp?      int16
| |      | | ++ro community-count?                 int32
| |      | | ++ro confederation-id-check?          boolean
| |      | | ++ro peer-and-extended-asn-capability? ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro address-family-capability?       ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro ipv6-next-hop-global?            inet:ipv6-address
| |      | | ++ro ipv6-next-hop-local?            inet:ipv6-address
| |      | | ++ro remote-port?                     int32
| |      | | ++ro remote-address?                  ipi-bgp-types:bgp_hostname_t
| |      | | ++ro local-host?                      ipi-bgp-types:bgp_hostname_t
| |      | | ++ro ipv4-next-hop?                   inet:ipv4-address
| |      | | ++ro local-port?                      int32
| |      | | ++ro default-information-originate?   boolean
| |      | | ++ro inbound-path-policy?             boolean
| |      | | ++ro outbound-path-policy?            boolean
| |      | | ++ro default-originate-information-sent? cml-data-types:cml_line_t
| |      | | ++ro graceful-restart?                ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro address-family-dependent-capability? boolean
| |      | | ++ro peer-address-family-table-version? int32
| |      | | ++ro address-family-table-version?    int32
| |      | | ++ro forward-status-preserve?         string
| |      | | ++ro orf-type-prefix?                 cml-data-types:cml_line_t
| |      | | ++ro orf-type-prefix-send-mode?       ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro orf-type-prefix-receive-mode?    ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro orf-type-prefix-old?             cml-data-types:cml_line_t
| |      | | ++ro orf-type-prefix-send-mode-old?   ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro orf-type-prefix-receive-mode-old? ipi-bgp-types:bgp_adv_rcv_type_t
| |      | | ++ro prefix-count?                    int32

```

			+--ro send-prefix-count?	int32
			+--ro flag-shut-down?	ipi-bgp-types:bgp_peerflag_shutdown_t
			+--ro count?	int32
			+--ro notify-info?	boolean
			+--ro notify-last-reset-time?	string
			+--ro connection-type?	ipi-bgp-types:bgp_connection_type_t
			+--ro next-connection-timer?	int32
			+--ro connection-dropped-count?	int32
			+--ro graceful-restart-status?	string
			+--ro graceful-restart-time?	int32
			+--ro bgp-established-up-time?	string
			+--ro last-read-time?	string
			+--ro link-type?	ipi-bgp-types:bgp_link_type_t
			+--ro ebgp-hop-away-count?	int32
			+--ro router-id?	inet:ipv4-address
			+--ro advertisement-interval?	int32
			+--ro calculated-hold-time?	int32
			+--ro calculated-keepalive?	int32
			+--ro dynamic-capability?	cml-data-types:cml_line_t
			+--ro route-refresh-capability?	ipi-bgp-types:bgp_route_refresh_cap_type_t
			+--ro no-interface-binding?	boolean
			+--ro additional-path-receive-capability?	ipi-bgp-types:bgp_capability_type_t {feature-list:HAVE_BGP_ADD_PATH}?
			+--ro additional-path-send-capability?	ipi-bgp-types:bgp_capability_type_t {feature-list:HAVE_BGP_ADD_PATH}?
			+--ro capability-ipv4-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-label-unicast?	ipi-bgp-types:bgp_capability_type_t {feature-list:HAVE_BGP_LU}?
			+--ro capability-ipv4-multicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-vpnv4-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-vpnv6-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-rtfilter-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-l2vpn-evpn?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-ipv6-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-ipv6-multicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro capability-ipv6-label-unicast?	ipi-bgp-types:bgp_capability_type_t
			+--ro evpn-ad-route-count?	uint32 {feature-list:HAVE_BGP_EVPN}?

```

| | | +--ro evpn-mac-ip-route-count?      uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-inclusive-multicast-route-count?  uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-segment-route-count?      uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro evpn-ip-prefix-route-count?      uint32 {feature-list:HAVE_BGP_EVPN}?
| | | +--ro peer-adj-out-routes
| | |   +--ro peer-adj-out-route* [network-address]
| | |     +--ro network-address  -> ../state/network-address
| | |     +--ro state
| | |       | +--ro network-address?  ipi-bgp-types:bgp_ip_network_t
| | |       +--ro next-hops
| | |         +--ro next-hop* [next-hop-address]
| | |           +--ro next-hop-address  -> ../state/next-hop-address
| | |           +--ro state
| | |             +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| | |             +--ro peer-network-weight?    uint32
| | |             +--ro flap-time-reuse-list?    string
| | |             +--ro flap-record-duration?    string
| | |             +--ro damp-time-to-reuse?      string
| | |             +--ro bgp-med-value?          uint32
| | |             +--ro bgp-as-path-string*      cml-data-types:cml_line_t
| | |             +--ro bgp-as-path-4-byte-string*  string
| | |             +--ro bgp-as-path-4-byte-origin?  ipi-bgp-types:bgp_origin_t
| | |             +--ro ibgp-metric-route?        int32
| | |             +--ro aggregate-as-route?        int32
| | |             +--ro aggregator-address-route?   ipi-bgp-types:bgp_hostname_t
| | |             +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| | |             +--ro originator-id-route?        ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-peer-address?        ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-local-preference?    uint32
| | |             +--ro route-prefix-label?        uint32
| | |             +--ro route-community-string?    cml-data-types:cml_line_t
| | |             +--ro cluster-list-route*        ipi-bgp-types:bgp_hostname_t
| | |             +--ro route-penalty?            int32
| | |             +--ro route-flap-count?          int32
| | |             +--ro last-update-route?          yang:date-and-time
| | |             +--ro reflector-client-route?    boolean

```

```

| |      +--ro route-dampening-active?      boolean
| |      +--ro history-route?                boolean
| |      +--ro nexthop-valid-route?          boolean
| |      +--ro med-flag-type-route?          boolean
| |      +--ro valid-route?                  boolean
| |      +--ro stale-route?                  boolean
| |      +--ro route-type?                   ipi-bgp-types:bgp_ri_type_t
| |      +--ro ecmp-multi-candidate-route?    boolean
| |      +--ro multi-installed-route?         boolean
| |      +--ro route-synchronized-flag-route? boolean
| |      +--ro atomic-aggregate-route?        boolean
| |      +--ro selected-route?                boolean
| |      +--ro bgp-tx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
| |      +--ro bgp-rx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
| |      +--ro ipv4-multicast-capability?     string
| |      +--ro vpngv4-unicast-capability?     string
| |      +--ro rtfiler-unicast-capability?    string
| |      +--ro l2vpn-evpn-capability?         string
| |      +--ro ipv6-unicast-capability?       string
| |      +--ro ipv6-multicast-capability?     string
| |      +--ro ipv6-label-unicast-capability? string
| |      +--ro in-label?                      uint32 {feature-list:HAVE_BGP_LU}?
| |      +--ro out-label?                     uint32 {feature-list:HAVE_BGP_LU}?
| |      +--ro as-origin-validation-state?    ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|   +--rw peers
|   | +--rw peer* [peer-address]
|   |   +--rw peer-address      -> ../config/peer-address
|   |   +--rw config
|   |   | +--rw peer-address?    ipi-bgp-types:bgp_ip_addr_t
|   |   | +--rw peer-as?        ipi-bgp-types:bgp_as_type_t
|   |   | +--rw graceful-shut?   empty
|   |   | +--rw enable-peer-bfd? empty {feature-list:HAVE_BFD}?
|   |   | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
|   |   | +--rw graceful-shutdown-timer? uint32
|   |   | +--rw peer-restart-time? uint32 {feature-list:HAVE_RESTART}?
|   |   | +--rw peer-description? cml-data-types:cml_line_t

```

```

| | | +--rw peer-connect-interval?      uint32
| | | +--rw peer-as-origin-interval?    uint32
| | | +--rw min-route-advertisement-interval?  uint32
| | | +--rw enable-dynamic-capability?      empty
| | | +--rw collide-established?            empty
| | | +--rw source-identifier?              string
| | | +--rw enforce-multi-hop?              empty
| | | +--rw neighbor-override-capability?    empty
| | | +--rw neighbor-strict-capability-match? empty
| | | +--rw disallow-infinite-hold-time?      empty
| | | +--rw neighbor-passive?                empty
| | | +--rw peer-shutdown?                  empty
| | | +--rw peer-shutdown-description?        cml-data-types:cml_line_t
| | | +--rw peer-port?                      uint16
| | | +--rw bgp-version?                    uint8
| | | +--rw interface-name?                 string
| | | +--rw mapped-peer-group-tag?           string
| | | +--rw enable-ext-opt-param-len?        empty
| | | +--rw tcp-adjust-mss?                  uint16
| | +--ro state
| | | +--ro counters
| | | | +--ro notification-in?      int32
| | | | +--ro notification-out?     int32
| | | | +--ro update-message-in?    int32
| | | | +--ro update-message-out?   int32
| | | +--ro peer-address?            ipi-bgp-types:bgp_ip_addr_t
| | | +--ro peer-as?                 ipi-bgp-types:bgp_as_type_t
| | | +--ro graceful-shut?            empty
| | | +--ro enable-peer-bfd?          empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| | | +--ro graceful-shutdown-timer?  uint32
| | | +--ro peer-restart-time?        uint32 {feature-list:HAVE_RESTART}?
| | | +--ro peer-description?         cml-data-types:cml_line_t
| | | +--ro peer-connect-interval?    uint32
| | | +--ro peer-as-origin-interval?  uint32
| | | +--ro min-route-advertisement-interval?  uint32

```

```

| | | +--ro enable-dynamic-capability?    empty
| | | +--ro collide-established?          empty
| | | +--ro source-identifier?            string
| | | +--ro enforce-multi-hop?            empty
| | | +--ro neighbor-override-capability? empty
| | | +--ro neighbor-strict-capability-match? empty
| | | +--ro disallow-infinite-hold-time?   empty
| | | +--ro neighbor-passive?              empty
| | | +--ro peer-shutdown?                empty
| | | +--ro peer-shutdown-description?     cml-data-types:cml_line_t
| | | +--ro peer-port?                    uint16
| | | +--ro bgp-version?                   uint8
| | | +--ro interface-name?                string
| | | +--ro mapped-peer-group-tag?         string
| | | +--ro enable-ext-opt-param-len?      empty
| | | +--ro tcp-adjust-mss?                uint16
| | | +--ro peer-type?                     ipi-bgp-types:bgp_peer_type_t
| | | +--ro dynamically-configured?        boolean
| | | +--ro connection-established-count?  int32
| | | +--ro error-notify-sent?             boolean
| | | +--ro notify-code-string?            cml-data-types:cml_line_t
| | | +--ro bgp-peer-state?                ipi-bgp-types:bgp_peer_status_t
| | | +--ro local-ip?                      ipi-bgp-types:bgp_ip_addr_t
| | | +--ro local-as?                      uint32
| | +--rw timers
| | | +--rw config!
| | | | +--rw keep-alive  uint16
| | | | +--rw hold-time   uint16
| | | | +--ro state
| | | |   +--ro keep-alive  uint16
| | | |   +--ro hold-time   uint16
| | +--rw ebgp-multihop
| | | +--rw config!
| | | | +--rw maximum-hop-count?  uint8
| | | | +--rw enabled              empty
| | | | +--ro state

```

```

| | | +--ro maximum-hop-count? uint8
| | | +--ro enabled          empty
| | +--rw local-as
| | | +--rw local-as-list* [peer-local-as]
| | | +--rw peer-local-as  -> ../config/peer-local-as
| | | +--rw config
| | | | +--rw peer-local-as?    uint32
| | | | +--rw no-prepend-local-as? empty
| | | | +--rw replace-local-as? empty
| | | +--ro state
| | |   +--ro peer-local-as?    uint32
| | |   +--ro no-prepend-local-as? empty
| | |   +--ro replace-local-as? empty
| | +--rw bgp-passwords
| | | +--rw bgp-password* [password]
| | | +--rw password  -> ../config/password
| | | +--rw config
| | | | +--rw password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | +--ro state
| | |   +--ro password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | +--rw address-families
| | | +--rw address-family* [afi safi]
| | | +--rw afi          -> ../config/afi
| | | +--rw safi          -> ../config/safi
| | | +--ro peer-adj-out-route* [network-address]
| | | | +--ro network-address  -> ../state/network-address
| | | | +--ro next-hop* [next-hop-address]
| | | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | | +--ro state
| | | | | | +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| | | | | | +--ro peer-network-weight?   uint32
| | | | | | +--ro flap-time-reuse-list?   string
| | | | | | +--ro flap-record-duration?   string
| | | | | | +--ro damp-time-to-reuse?     string

```

					+--ro bgp-med-value?	uint32
					+--ro bgp-as-path-string*	cml-data-types:cml_line_t
					+--ro bgp-as-path-4-byte-string*	string
					+--ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
					+--ro ibgp-metric-route?	int32
					+--ro aggregate-as-route?	int32
					+--ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
					+--ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
					+--ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
					+--ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
					+--ro route-local-preference?	uint32
					+--ro route-prefix-label?	uint32
					+--ro route-community-string?	cml-data-types:cml_line_t
					+--ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
					+--ro route-penalty?	int32
					+--ro route-flap-count?	int32
					+--ro last-update-route?	yang:date-and-time
					+--ro reflector-client-route?	boolean
					+--ro route-dampening-active?	boolean
					+--ro history-route?	boolean
					+--ro nexthop-valid-route?	boolean
					+--ro med-flag-type-route?	boolean
					+--ro valid-route?	boolean
					+--ro stale-route?	boolean
					+--ro route-type?	ipi-bgp-types:bgp_ri_type_t
					+--ro ecmp-multi-candidate-route?	boolean
					+--ro multi-installed-route?	boolean
					+--ro route-synchronized-flag-route?	boolean
					+--ro atomic-aggregate-route?	boolean
					+--ro selected-route?	boolean
					+--ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
					+--ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
					+--ro ipv4-multicast-capability?	string
					+--ro vpnv4-unicast-capability?	string
					+--ro rtfilter-unicast-capability?	string
					+--ro l2vpn-evpn-capability?	string

```

| | | | +--ro ipv6-unicast-capability?    string
| | | | +--ro ipv6-multicast-capability?   string
| | | | +--ro ipv6-label-unicast-capability? string
| | | | +--ro in-label?                    uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro out-label?                   uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro as-origin-validation-state?  ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | +--ro state
| | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | +--ro peer-adj-in-route* [network-address]
| | | | +--ro network-address  -> ../state/network-address
| | | | +--ro next-hop* [next-hop-address]
| | | | +--ro next-hop-address  -> ../state/next-hop-address
| | | | +--ro state
| | | | +--ro next-hop-address?            ipi-bgp-types:bgp_hostname_t
| | | | +--ro peer-network-weight?        uint32
| | | | +--ro flap-time-reuse-list?       string
| | | | +--ro flap-record-duration?      string
| | | | +--ro damp-time-to-reuse?        string
| | | | +--ro bgp-med-value?             uint32
| | | | +--ro bgp-as-path-string*        cml-data-types:cml_line_t
| | | | +--ro bgp-as-path-4-byte-string*  string
| | | | +--ro bgp-as-path-4-byte-origin?  ipi-bgp-types:bgp_origin_t
| | | | +--ro ibgp-metric-route?         int32
| | | | +--ro aggregate-as-route?        int32
| | | | +--ro aggregator-address-route?   ipi-bgp-types:bgp_hostname_t
| | | | +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| | | | +--ro originator-id-route?       ipi-bgp-types:bgp_hostname_t
| | | | +--ro route-peer-address?        ipi-bgp-types:bgp_hostname_t
| | | | +--ro route-local-preference?    uint32
| | | | +--ro route-prefix-label?        uint32
| | | | +--ro route-community-string?    cml-data-types:cml_line_t
| | | | +--ro cluster-list-route*        ipi-bgp-types:bgp_hostname_t
| | | | +--ro route-penalty?            int32
| | | | +--ro route-flap-count?          int32
| | | | +--ro last-update-route?         yang:date-and-time
| | | | +--ro reflector-client-route?    boolean

```

```

| | | | | +--ro route-dampening-active?      boolean
| | | | | +--ro history-route?                boolean
| | | | | +--ro nexthop-valid-route?          boolean
| | | | | +--ro med-flag-type-route?          boolean
| | | | | +--ro valid-route?                  boolean
| | | | | +--ro stale-route?                  boolean
| | | | | +--ro route-type?                    ipi-bgp-types:bgp_ri_type_t
| | | | | +--ro ecmp-multi-candidate-route?    boolean
| | | | | +--ro multi-installed-route?         boolean
| | | | | +--ro route-synchronized-flag-route? boolean
| | | | | +--ro atomic-aggregate-route?        boolean
| | | | | +--ro selected-route?                boolean
| | | | | +--ro bgp-tx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--ro bgp-rx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | | +--ro ipv4-multicast-capability?      string
| | | | | +--ro vpngv4-unicast-capability?      string
| | | | | +--ro rtfiler-unicast-capability?     string
| | | | | +--ro l2vpn-evpn-capability?          string
| | | | | +--ro ipv6-unicast-capability?        string
| | | | | +--ro ipv6-multicast-capability?      string
| | | | | +--ro ipv6-label-unicast-capability?  string
| | | | | +--ro in-label?                      uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro out-label?                     uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro as-origin-validation-state?     ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | | +--ro state
| | | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | +--rw config
| | | | +--rw afi?                          ipi-bgp-types:bgp_afi_type_t
| | | | +--rw safi?                          ipi-bgp-types:bgp_safi_type_t
| | | | +--rw additional-paths-mode?          ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all?     empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw route-server-client?            empty
| | | | +--rw next-hop-self?                  empty
| | | | +--rw activate?                      empty

```

```

| | | | +--rw de-activate?          empty
| | | | +--rw default-peer-route-map-name?    empty
| | | | +--rw peer-route-map-orig-name?      string
| | | | +--rw soft-reconfig?                ipi-bgp-types:bgp_update_clear_t
| | | | +--rw weight?                      uint16
| | | | +--rw flowspec-validation-disable?    empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--rw peer-route-reflector?          empty
| | | | +--rw peer-remove-private-as?        empty
| | | | +--rw no-send-community?             empty
| | | | +--rw no-send-community-type?        ipi-bgp-types:bgp_send_commu_type_t
| | | | +--rw neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--rw orf-prefix-capability?         ipi-bgp-types:bgp_orf_prefix_type_t
| | | | +--rw peer-allow-ebgp-vpn?           empty {feature-list:HAVE_VRF}?
| | | | +--rw allow-as-number?              uint32
| | | | +--rw capability-graceful-restart?   empty
| | | | +--rw extended-nexthop-encode?      empty
| | | | +--rw mapped-peer-group-tag-af?      string
| | | | +--rw unsuppress-route-map-name?     string
| | | +--ro state
| | | +--ro counters
| | | | +--ro keepalive-in-messages?        int32
| | | | +--ro keepalive-out-messages?       int32
| | | | +--ro open-messages-in?             int32
| | | | +--ro open-messages-out?            int32
| | | | +--ro as-path-count?                int32
| | | | +--ro as-path-extended-count?       int32
| | | | +--ro received-packet-count?        int32
| | | | +--ro packet-in-queue?              int32
| | | | +--ro packet-out-queue?             int32
| | | | +--ro sent-packet-count?            int32
| | | | +--ro refresh-received-packet-count? int32
| | | | +--ro refresh-sent-packet-count?    int32
| | | | +--ro afi?                          ipi-bgp-types:bgp_afi_type_t
| | | | +--ro safi?                         ipi-bgp-types:bgp_safi_type_t
| | | | +--ro additional-paths-mode?        ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-select-all?  empty {feature-list:HAVE_BGP_ADD_PATH}?

```

				+--ro additional-paths-best-select-count?	uint8 {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro route-server-client?	empty
				+--ro next-hop-self?	empty
				+--ro activate?	empty
				+--ro de-activate?	empty
				+--ro default-peer-route-map-name?	empty
				+--ro peer-route-map-orig-name?	string
				+--ro soft-reconfig?	ipi-bgp-types:bgp_update_clear_t
				+--ro weight?	uint16
				+--ro flowspec-validation-disable?	empty {feature-list:HAVE_BGP_FLOWSPEC}?
				+--ro peer-route-reflector?	empty
				+--ro peer-remove-private-as?	empty
				+--ro no-send-community?	empty
				+--ro no-send-community-type?	ipi-bgp-types:bgp_send_commu_type_t
				+--ro neighbor-attribute-unchanged?	ipi-bgp-types:bgp_attribute_unchanged_type_t
				+--ro orf-prefix-capability?	ipi-bgp-types:bgp_orf_prefix_type_t
				+--ro peer-allow-ebgp-vpn?	empty {feature-list:HAVE_VRF}?
				+--ro allow-as-number?	uint32
				+--ro capability-graceful-restart?	empty
				+--ro extended-nexthop-encode?	empty
				+--ro mapped-peer-group-tag-af?	string
				+--ro unsuppress-route-map-name?	string
				+--ro dynamic-peer-address?	ipi-bgp-types:bgp_ip_addr_t
				+--ro max-paths-ibgp?	int16
				+--ro configured-max-paths-ebgp?	int16
				+--ro max-paths-ebgp?	int16
				+--ro configured-max-paths-ibgp?	int16
				+--ro max-paths-eibgp?	int16
				+--ro configured-max-paths-eibgp?	int16
				+--ro community-count?	int32
				+--ro confederation-id-check?	boolean
				+--ro peer-and-extended-asn-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro address-family-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro ipv6-next-hop-global?	inet:ipv6-address
				+--ro ipv6-next-hop-local?	inet:ipv6-address
				+--ro remote-port?	int32

				+--ro remote-address?	ipi-bgp-types:bgp_hostname_t
				+--ro local-host?	ipi-bgp-types:bgp_hostname_t
				+--ro ipv4-next-hop?	inet:ipv4-address
				+--ro local-port?	int32
				+--ro default-information-originate?	boolean
				+--ro inbound-path-policy?	boolean
				+--ro outbound-path-policy?	boolean
				+--ro default-originate-information-sent?	cml-data-types:cml_line_t
				+--ro graceful-restart?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro address-family-dependent-capability?	boolean
				+--ro peer-address-family-table-version?	int32
				+--ro address-family-table-version?	int32
				+--ro forward-status-preserve?	string
				+--ro orf-type-prefix?	cml-data-types:cml_line_t
				+--ro orf-type-prefix-send-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-receive-mode?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-old?	cml-data-types:cml_line_t
				+--ro orf-type-prefix-send-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro orf-type-prefix-receive-mode-old?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro prefix-count?	int32
				+--ro send-prefix-count?	int32
				+--ro flag-shut-down?	ipi-bgp-types:bgp_peerflag_shutdown_t
				+--ro count?	int32
				+--ro notify-info?	boolean
				+--ro notify-last-reset-time?	string
				+--ro connection-type?	ipi-bgp-types:bgp_connection_type_t
				+--ro next-connection-timer?	int32
				+--ro connection-dropped-count?	int32
				+--ro graceful-restart-status?	string
				+--ro graceful-restart-time?	int32
				+--ro bgp-established-up-time?	string
				+--ro last-read-time?	string
				+--ro link-type?	ipi-bgp-types:bgp_link_type_t
				+--ro ebgp-hop-away-count?	int32
				+--ro router-id?	inet:ipv4-address
				+--ro advertisement-interval?	int32

```

| | | | +--ro calculated-hold-time?          int32
| | | | +--ro calculated-keepalive?         int32
| | | | +--ro dynamic-capability?          cml-data-types:cml_line_t
| | | | +--ro route-refresh-capability?     ipi-bgp-types:bgp_route_refresh_cap_type_t
| | | | +--ro no-interface-binding?        boolean
| | | | +--ro additional-path-receive-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-send-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro capability-ipv4-unicast?      ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-label-unicast?     ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
| | | | +--ro capability-ipv4-multicast?    ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv4-unicast?    ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-vpnv6-unicast?    ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-rtfilter-unicast?  ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-l2vpn-evpn?       ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-unicast?     ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-multicast?   ipi-bgp-types:bgp_capability_type_t
| | | | +--ro capability-ipv6-label-unicast? ipi-bgp-types:bgp_capability_type_t
| | | | +--ro evpn-ad-route-count?         uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-mac-ip-route-count?     uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-inclusive-multicast-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-segment-route-count?    uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--ro evpn-ip-prefix-route-count?  uint32 {feature-list:HAVE_BGP_EVPN}?
| | | | +--rw maximum-prefixes
| | | | +--rw maximum-prefix* [prefix-count]
| | | | +--rw prefix-count -> ../config/prefix-count
| | | | +--rw config
| | | | | +--rw prefix-count?              uint32
| | | | | +--rw stop-update?              empty
| | | | | +--rw maximum-prefix-warning?   empty
| | | | | +--rw threshold-percentage?    uint8
| | | | | +--rw warning-only?            empty
| | | | +--ro state
| | | | | +--ro prefix-count?             uint32
| | | | | +--ro stop-update?              empty

```

```

| | | | +--ro maximum-prefix-warning? empty
| | | | +--ro threshold-percentage? uint8
| | | | +--ro warning-only? empty
| | | +--rw distribute-list-filters
| | | | +--rw distribute-list-filter* [filter-direction]
| | | | +--rw filter-direction -> ../config/filter-direction
| | | | +--rw config
| | | | | +--rw access-list-identifier string
| | | | | +--rw filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro access-list-identifier string
| | | | +--ro filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw as-list-filters
| | | | +--rw as-list-filter* [as-list-direction]
| | | | +--rw as-list-direction -> ../config/as-list-direction
| | | | +--rw config
| | | | | +--rw as-access-list-identifier string
| | | | | +--rw as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro as-access-list-identifier string
| | | | +--ro as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw prefix-list-filters
| | | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | | +--rw prefix-filter-direction -> ../config/prefix-filter-direction
| | | | +--rw config
| | | | | +--rw prefix-list-name string
| | | | | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro state
| | | | +--ro prefix-list-name string
| | | | +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw route-map-filters
| | | | +--rw route-map-filter* [route-map-direction]
| | | | +--rw route-map-direction -> ../config/route-map-direction
| | | | +--rw config
| | | | | +--rw route-map-name string
| | | | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t

```

```

| | | | +--ro state
| | | |   +--ro route-map-name      string
| | | |   +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--ro outbound-route-filter
| | | | | +--ro state
| | | | |   +--ro orf-prefix-string?  boolean
| | | | |   +--ro orf-prefix-send?   string
| | | | |   +--ro orf-prefix-count?  string
| | | | |   +--ro orf-wait-refresh?  boolean
| | | | +--ro peer-prefix
| | | | | +--ro state
| | | | |   +--ro entry-sequence?    int32
| | | | |   +--ro entry-type?       ipi-bgp-types:bgp_prefix_entry_type_t
| | | | |   +--ro entry-max-length?  int32
| | | | |   +--ro entry-min-length?  int32
| | | | |   +--ro prefix-length?    int32
| | | | +--ro peer-index
| | | | | +--ro state
| | | | |   +--ro peer-index?  int32
| | | | |   +--ro offset?     int32
| | | | |   +--ro mask?      string
| | | | +--rw aigp {feature-list:HAVE_BGP_AIGP}?
| | | |   +--rw config
| | | |     | +--rw admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | |     | +--rw aigp-send-med? empty
| | | |     +--ro state
| | | |       | +--ro admin-status?  cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
| | | |       | +--ro aigp-send-med? empty
| | | |       +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
| | | |         +--rw config!
| | | |           | +--rw send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?
| | | |           | +--rw point-of-insertion      ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | |           | +--rw enable-transitive?     empty {feature-list:HAVE_BGP_AIGP}?
| | | |           +--ro state
| | | |           +--ro send-cost-community-id  uint8 {feature-list:HAVE_BGP_AIGP}?

```

```

| | | +--ro point-of-insertion ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
| | | +--ro enable-transitive? empty {feature-list:HAVE_BGP_AIGP}?
| | +--rw egress-engineering
| |   +--rw config
| |     | +--rw enable-peer-node? empty
| |     +--ro state
| |       | +--ro enable-peer-node? empty
| |       | +--ro in-label? uint32
| |       | +--ro nexthop-ip-address? inet:ipv4-address
| |       | +--ro out-interface? string
| |       +--rw peer-set
| |         | +--rw config
| |         | | +--rw set-name? string
| |         | +--ro state
| |         |   +--ro set-name? string
| |         |   +--ro in-label? uint32
| |         |   +--ro nexthop-ip-address? inet:ipv4-address
| |         |   +--ro out-interface? string
| |         +--rw backup
| |           | +--rw peer-node
| |           | | +--rw config
| |           | | | +--rw address? inet:ipv4-address
| |           | | +--ro state
| |           | |   +--ro address? inet:ipv4-address
| |           | |   +--ro nexthop-ip-address? inet:ipv4-address
| |           | |   +--ro out-interface? string
| |           | +--rw adjacency
| |           |   +--rw config!
| |           | | +--rw adjacent-address inet:ipv4-address
| |           | | +--rw nexthop-address inet:ipv4-address
| |           | +--ro state
| |           |   +--ro adjacent-address inet:ipv4-address
| |           |   +--ro nexthop-address inet:ipv4-address
| |           |   +--ro nexthop-ip-address? inet:ipv4-address
| |           |   +--ro out-interface? string
| |           +--rw peer-adjacencies

```

```

| |      +--rw peer-adjacency* [hop-address]
| |      +--rw hop-address  -> ../config/hop-address
| |      +--rw config
| |      | +--rw hop-address?  inet:ipv4-address
| |      +--ro state
| |      | +--ro hop-address?    inet:ipv4-address
| |      | +--ro in-label?       uint32
| |      | +--ro nexthop-ip-address?  inet:ipv4-address
| |      | +--ro out-interface?   string
| |      +--rw backup
| |      +--rw peer-node
| |      | +--rw config
| |      | | +--rw address?  inet:ipv4-address
| |      | | +--ro state
| |      | | +--ro address?    inet:ipv4-address
| |      | | +--ro nexthop-ip-address?  inet:ipv4-address
| |      | | +--ro out-interface?  string
| |      +--rw adjacency
| |      +--rw config!
| |      | +--rw adjacent-address  inet:ipv4-address
| |      | +--rw nexthop-address  inet:ipv4-address
| |      +--ro state
| |      +--ro adjacent-address  inet:ipv4-address
| |      +--ro nexthop-address  inet:ipv4-address
| |      +--ro nexthop-ip-address?  inet:ipv4-address
| |      +--ro out-interface?   string
| +--rw address-family-vrfs
| | +--rw address-family-vrf* [afi safi vrf-name]
| |   +--rw afi          -> ../config/afi
| |   +--rw safi          -> ../config/safi
| |   +--rw vrf-name      -> ../config/vrf-name
| |   +--rw config
| |   | +--rw afi?          ipi-bgp-types:bgp_vrf_afi_type_t
| |   | +--rw safi?         ipi-bgp-types:bgp_vrf_safi_type_t
| |   | +--rw vrf-name?     -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
| |   | config/vrf-name
| |   | +--rw multipath-relax?  empty

```

```

| | | +--rw graceful-shutdown?          empty
| | | +--rw graceful-shutdown-capable?    empty
| | | +--rw graceful-shutdown-local-preference? uint32
| | | +--rw additional-paths-mode?        ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--rw enable-pic?                    empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--rw enable-auto-summary?           empty
| | | +--rw enable-additional-path-pic?     empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--rw enable-network-igp-sync?       empty
| | | +--rw enable-igp-sync?              empty
| | | +--rw enable-bgp-implicit-null?      empty
| | +--ro state
| | | +--ro afi?                          ipi-bgp-types:bgp_vrf_afi_type_t
| | | +--ro safi?                         ipi-bgp-types:bgp_vrf_safi_type_t
| | | +--ro vrf-name?                     -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
| | | +--ro multipath-relax?              empty
| | | +--ro graceful-shutdown?            empty
| | | +--ro graceful-shutdown-capable?    empty
| | | +--ro graceful-shutdown-local-preference? uint32
| | | +--ro additional-paths-mode?        ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro enable-pic?                    empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-auto-summary?           empty
| | | +--ro enable-additional-path-pic?     empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
| | | +--ro enable-network-igp-sync?       empty
| | | +--ro enable-igp-sync?              empty
| | | +--ro enable-bgp-implicit-null?      empty
| | +--rw distances
| | | +--rw distance* [ebgp ibgp local]
| | |   +--rw ebgp   -> ../config/ebgp
| | |   +--rw ibgp   -> ../config/ibgp
| | |   +--rw local   -> ../config/local

```

```

| | | +--rw config
| | | | +--rw ebgp?  uint8
| | | | +--rw ibgp?  uint8
| | | | +--rw local? uint8
| | | +--ro state
| | |   +--ro ebgp?  uint8
| | |   +--ro ibgp?  uint8
| | |   +--ro local? uint8
| | +--rw aggregate-address-lists
| | | +--rw aggregate-address-list* [aggregate-address]
| | |   +--rw aggregate-address  -> ../config/aggregate-address
| | |   +--rw config
| | | | +--rw aggregate-address? cml-data-types:cml_ip_prefix_t
| | | | +--rw aggregate-type?   ipi-bgp-types:bgp_aggregate_type_t
| | | +--ro state
| | |   +--ro aggregate-address? cml-data-types:cml_ip_prefix_t
| | |   +--ro aggregate-type?   ipi-bgp-types:bgp_aggregate_type_t
| | +--rw maximum-paths
| | | +--rw config
| | | | +--rw ebgp-max-path?  int32
| | | | +--rw ibgp-max-path? int32
| | | | +--rw eibgp-max-path? int32
| | | +--ro state
| | |   +--ro ebgp-max-path?  int32
| | |   +--ro ibgp-max-path? int32
| | |   +--ro eibgp-max-path? int32
| | +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--rw config!
| | | | +--rw map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | | | +--rw table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | | +--ro state
| | |   +--ro map-name      string {feature-list:HAVE_BGP_TABLE_MAP}?
| | |   +--ro table-map-filter? boolean {feature-list:HAVE_BGP_TABLE_MAP}?
| | +--rw route-flap-dampenings
| | | +--rw route-flap-dampening* [enable-dampening]
| | |   +--rw enable-dampening  -> ../config/enable-dampening

```

```

| | | +--rw config
| | | | +--rw enable-dampening?   ipi-bgp-types:bgp_dampening_t
| | | | +--rw reach-half-life?    uint32
| | | | +--rw reuse-penalty?      uint32
| | | | +--rw suppress-penalty?   uint32
| | | | +--rw max-suppress-time?  uint32
| | | | +--rw unreach-half-life?  uint32
| | | | +--rw dampening-rmap-name? string
| | | +--ro state
| | |   +--ro enable-dampening?   ipi-bgp-types:bgp_dampening_t
| | |   +--ro reach-half-life?    uint32
| | |   +--ro reuse-penalty?      uint32
| | |   +--ro suppress-penalty?   uint32
| | |   +--ro max-suppress-time?  uint32
| | |   +--ro unreach-half-life?  uint32
| | |   +--ro dampening-rmap-name? string
| | +--rw route-redistribute-lists
| | | +--rw route-redistribute-list* [protocol-type]
| | |   +--rw protocol-type -> ../config/protocol-type
| | |   +--rw config
| | | | +--rw protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| | | | +--rw redist-route-map-name string
| | | +--ro state
| | |   +--ro protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| | |   +--ro redist-route-map-name string
| | +--rw bgp-srv6 {feature-list:HAVE_SRV6}?
| | | +--rw config!
| | | | +--rw bgpSRv6enable empty
| | | +--ro state
| | | | +--ro bgpSRv6enable empty
| | | +--rw sid-alloc-mode
| | |   +--rw config
| | | | +--rw sid-alloc-type? ipi-bgp-types:bgp_sid_alloc_type_t
| | | +--ro state
| | |   +--ro sid-alloc-type? ipi-bgp-types:bgp_sid_alloc_type_t
| | +--rw bgp-redistribute-ospfs

```

```
| | | +--rw bgp-redistribute-ospf* [ospf-instance-number]
| | |   +--rw ospf-instance-number  -> ../config/ospf-instance-number
| | |   +--rw config
| | |     +--rw ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| | |     +--rw redistribute-ospf-route-map? string
| | |     +--ro state
| | |       +--ro ospf-instance-number?      ipi-bgp-types:cml_ospf_area_id_t
| | |       +--ro redistribute-ospf-route-map? string
| | +--rw vrf-peers
| |   +--rw vrf-peer* [peer-address]
| |     +--rw peer-address          -> ../config/peer-address
| |     +--ro peer-adj-out-route* [network-address]
| |       +--ro network-address  -> ../state/network-address
| |       +--ro next-hop* [next-hop-address]
| |         +--ro next-hop-address -> ../state/next-hop-address
| |         +--ro state
| |           +--ro next-hop-address?      ipi-bgp-types:bgp_hostname_t
| |           +--ro peer-network-weight?    uint32
| |           +--ro flap-time-reuse-list?    string
| |           +--ro flap-record-duration?    string
| |           +--ro damp-time-to-reuse?      string
| |           +--ro bgp-med-value?           uint32
| |           +--ro bgp-as-path-string*      cml-data-types:cml_line_t
| |           +--ro bgp-as-path-4-byte-string* string
| |           +--ro bgp-as-path-4-byte-origin? ipi-bgp-types:bgp_origin_t
| |           +--ro ibgp-metric-route?       int32
| |           +--ro aggregate-as-route?      int32
| |           +--ro aggregator-address-route? ipi-bgp-types:bgp_hostname_t
| |           +--ro network-remote-address-route? ipi-bgp-types:bgp_hostname_t
| |           +--ro originator-id-route?     ipi-bgp-types:bgp_hostname_t
| |           +--ro route-peer-address?      ipi-bgp-types:bgp_hostname_t
| |           +--ro route-local-preference?  uint32
| |           +--ro route-prefix-label?      uint32
| |           +--ro route-community-string?  cml-data-types:cml_line_t
| |           +--ro cluster-list-route*      ipi-bgp-types:bgp_hostname_t
| |           +--ro route-penalty?           int32
```

```

| | | | +--ro route-flap-count?          int32
| | | | +--ro last-update-route?         yang:date-and-time
| | | | +--ro reflector-client-route?     boolean
| | | | +--ro route-dampening-active?     boolean
| | | | +--ro history-route?              boolean
| | | | +--ro nexthop-valid-route?        boolean
| | | | +--ro med-flag-type-route?        boolean
| | | | +--ro valid-route?                boolean
| | | | +--ro stale-route?                boolean
| | | | +--ro route-type?                 ipi-bgp-types:bgp_ri_type_t
| | | | +--ro ecmp-multi-candidate-route? boolean
| | | | +--ro multi-installed-route?      boolean
| | | | +--ro route-synchronized-flag-route? boolean
| | | | +--ro atomic-aggregate-route?     boolean
| | | | +--ro selected-route?             boolean
| | | | +--ro bgp-tx-path-id?             int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro bgp-rx-path-id?             int16 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--ro ipv4-multicast-capability?   string
| | | | +--ro vpngv4-unicast-capability?   string
| | | | +--ro rtfiler-unicast-capability?  string
| | | | +--ro l2vpn-evpn-capability?       string
| | | | +--ro ipv6-unicast-capability?     string
| | | | +--ro ipv6-multicast-capability?   string
| | | | +--ro ipv6-label-unicast-capability? string
| | | | +--ro in-label?                    uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro out-label?                   uint32 {feature-list:HAVE_BGP_LU}?
| | | | +--ro as-origin-validation-state?  ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | +--ro state
| | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | +--ro peer-adj-in-route* [network-address]
| | | | +--ro network-address -> ../state/network-address
| | | | +--ro next-hop* [next-hop-address]
| | | | +--ro next-hop-address -> ../state/next-hop-address
| | | | +--ro state
| | | | +--ro next-hop-address?            ipi-bgp-types:bgp_hostname_t
| | | | +--ro peer-network-weight?        uint32

```

					+--ro flap-time-reuse-list?	string
					+--ro flap-record-duration?	string
					+--ro damp-time-to-reuse?	string
					+--ro bgp-med-value?	uint32
					+--ro bgp-as-path-string*	cml-data-types:cml_line_t
					+--ro bgp-as-path-4-byte-string*	string
					+--ro bgp-as-path-4-byte-origin?	ipi-bgp-types:bgp_origin_t
					+--ro ibgp-metric-route?	int32
					+--ro aggregate-as-route?	int32
					+--ro aggregator-address-route?	ipi-bgp-types:bgp_hostname_t
					+--ro network-remote-address-route?	ipi-bgp-types:bgp_hostname_t
					+--ro originator-id-route?	ipi-bgp-types:bgp_hostname_t
					+--ro route-peer-address?	ipi-bgp-types:bgp_hostname_t
					+--ro route-local-preference?	uint32
					+--ro route-prefix-label?	uint32
					+--ro route-community-string?	cml-data-types:cml_line_t
					+--ro cluster-list-route*	ipi-bgp-types:bgp_hostname_t
					+--ro route-penalty?	int32
					+--ro route-flap-count?	int32
					+--ro last-update-route?	yang:date-and-time
					+--ro reflector-client-route?	boolean
					+--ro route-dampening-active?	boolean
					+--ro history-route?	boolean
					+--ro nexthop-valid-route?	boolean
					+--ro med-flag-type-route?	boolean
					+--ro valid-route?	boolean
					+--ro stale-route?	boolean
					+--ro route-type?	ipi-bgp-types:bgp_ri_type_t
					+--ro ecmp-multi-candidate-route?	boolean
					+--ro multi-installed-route?	boolean
					+--ro route-synchronized-flag-route?	boolean
					+--ro atomic-aggregate-route?	boolean
					+--ro selected-route?	boolean
					+--ro bgp-tx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
					+--ro bgp-rx-path-id?	int16 {feature-list:HAVE_BGP_ADD_PATH}?
					+--ro ipv4-multicast-capability?	string

```

| | | | | +--ro vpv4-unicast-capability?    string
| | | | | +--ro rtfiler-unicast-capability?  string
| | | | | +--ro l2vpn-evpn-capability?      string
| | | | | +--ro ipv6-unicast-capability?    string
| | | | | +--ro ipv6-multicast-capability?  string
| | | | | +--ro ipv6-label-unicast-capability? string
| | | | | +--ro in-label?                   uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro out-label?                  uint32 {feature-list:HAVE_BGP_LU}?
| | | | | +--ro as-origin-validation-state? ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| | | | | +--ro state
| | | | | +--ro network-address? ipi-bgp-types:bgp_ip_network_t
| | | | +--rw config
| | | | | +--rw peer-address?                inet:ip-address
| | | | | +--rw peer-as?                     uint32
| | | | | +--rw source-identifier?           string
| | | | | +--rw bgp-version?                 uint8
| | | | | +--rw peer-connection-interval?    uint32
| | | | | +--rw enforce-multihop?            empty
| | | | | +--rw peer-shutdown?              empty
| | | | | +--rw peer-shutdown-description?   cml-data-types:cml_line_t
| | | | | +--rw neighbor-passive?            empty
| | | | | +--rw enable-dynamic-capability?   empty
| | | | | +--rw min-route-advertisement-interval? uint32
| | | | | +--rw peer-as-origin-interval?     uint32
| | | | | +--rw neighbor-as-override?       empty
| | | | | +--rw peer-interface-name?        string {feature-list:HAVE_VRF}?
| | | | | +--rw peer-description?           cml-data-types:cml_line_t
| | | | | +--rw peer-restart-time?          uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
| | | | | +--rw graceful-shut?              empty
| | | | | +--rw graceful-shut-timer?        uint32
| | | | | +--rw enable-peer-bfd?            empty {feature-list:HAVE_BFD}?
| | | | | +--rw enable-peer-bfd-multihop?   empty {feature-list:HAVE_BFD}?
| | | | | +--rw bgp-port?                   uint16
| | | | | +--rw activate?                   empty
| | | | | +--rw de-activate?                empty
| | | | | +--rw default-peer-route-map-name? empty

```

```

| | | | +--rw peer-route-map-orig-name?      string
| | | | +--rw weight?                        uint16
| | | | +--rw flowspec-validation-disable?    empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | | +--rw peer-route-reflector?          empty
| | | | +--rw peer-remove-private-as?        empty
| | | | +--rw no-send-community?             empty
| | | | +--rw no-send-community-type?        ipi-bgp-types:bgp_send_commu_type_t
| | | | +--rw neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | | +--rw orf-prefix-capability?         ipi-bgp-types:bgp_orf_prefix_type_t
| | | | +--rw peer-allow-ebgp-vpn?          empty {feature-list:HAVE_VRF}?
| | | | +--rw allow-as-number?              uint32
| | | | +--rw capability-graceful-restart?    empty
| | | | +--rw mapped-peer-group-tag-af?      string
| | | | +--rw unsuppress-route-map-name?     string
| | | | +--rw enable-ext-opt-param-len?      empty
| | | | +--rw additional-paths-mode?         ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | | +--rw tcp-adjust-mss?                uint16
| | | | +--rw site-origin-identifier?        string {feature-list:HAVE_VRF}?
| | | | +--ro state
| | | | +--ro counters
| | | | | +--ro keepalive-in-messages?      int32
| | | | | +--ro keepalive-out-messages?     int32
| | | | | +--ro open-messages-in?           int32
| | | | | +--ro open-messages-out?          int32
| | | | | +--ro as-path-count?              int32
| | | | | +--ro as-path-extended-count?     int32
| | | | | +--ro received-packet-count?      int32
| | | | | +--ro packet-in-queue?            int32
| | | | | +--ro packet-out-queue?           int32
| | | | | +--ro sent-packet-count?          int32
| | | | | +--ro refresh-received-packet-count? int32
| | | | | +--ro refresh-sent-packet-count?   int32
| | | | | +--ro notification-in?            int32
| | | | | +--ro notification-out?           int32

```

				++ro update-message-in?	int32
				++ro update-message-out?	int32
				++ro peer-address?	inet:ip-address
				++ro peer-as?	uint32
				++ro source-identifier?	string
				++ro bgp-version?	uint8
				++ro peer-connection-interval?	uint32
				++ro enforce-multihop?	empty
				++ro peer-shutdown?	empty
				++ro peer-shutdown-description?	cml-data-types:cml_line_t
				++ro neighbor-passive?	empty
				++ro enable-dynamic-capability?	empty
				++ro min-route-advertisement-interval?	uint32
				++ro peer-as-origin-interval?	uint32
				++ro neighbor-as-override?	empty
				++ro peer-interface-name?	string {feature-list:HAVE_VRF}?
				++ro peer-description?	cml-data-types:cml_line_t
				++ro peer-restart-time?	uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
				++ro graceful-shut?	empty
				++ro graceful-shut-timer?	uint32
				++ro enable-peer-bfd?	empty {feature-list:HAVE_BFD}?
				++ro enable-peer-bfd-multihop?	empty {feature-list:HAVE_BFD}?
				++ro bgp-port?	uint16
				++ro activate?	empty
				++ro de-activate?	empty
				++ro default-peer-route-map-name?	empty
				++ro peer-route-map-orig-name?	string
				++ro weight?	uint16
				++ro flowspec-validation-disable?	empty {feature-list:HAVE_BGP_FLOWSPEC}?
				++ro peer-route-reflector?	empty
				++ro peer-remove-private-as?	empty
				++ro no-send-community?	empty
				++ro no-send-community-type?	ipi-bgp-types:bgp_send_commu_type_t
				++ro neighbor-attribute-unchanged?	ipi-bgp-types:bgp_attribute_unchanged_type_t
				++ro orf-prefix-capability?	ipi-bgp-types:bgp_orf_prefix_type_t
				++ro peer-allow-ebgp-vpn?	empty {feature-list:HAVE_VRF}?

				+--ro allow-as-number?	uint32
				+--ro capability-graceful-restart?	empty
				+--ro mapped-peer-group-tag-af?	string
				+--ro unsuppress-route-map-name?	string
				+--ro enable-ext-opt-param-len?	empty
				+--ro additional-paths-mode?	ipi-bgp-types:bgp_peer_additional_path_type_t {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro additional-path-select-all?	empty {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro additional-paths-best-select-count?	uint8 {feature-list:HAVE_BGP_ADD_PATH}?
				+--ro tcp-adjust-mss?	uint16
				+--ro site-origin-identifier?	string {feature-list:HAVE_VRF}?
				+--ro connection-established-count?	int32
				+--ro error-notify-sent?	boolean
				+--ro notify-code-string?	cml-data-types:cml_line_t
				+--ro bgp-peer-state?	ipi-bgp-types:bgp_peer_status_t
				+--ro dynamic-peer-address?	ipi-bgp-types:bgp_ip_addr_t
				+--ro max-paths-ibgp?	int16
				+--ro configured-max-paths-ebgp?	int16
				+--ro max-paths-ebgp?	int16
				+--ro configured-max-paths-ibgp?	int16
				+--ro max-paths-eibgp?	int16
				+--ro configured-max-paths-eibgp?	int16
				+--ro community-count?	int32
				+--ro confederation-id-check?	boolean
				+--ro peer-and-extended-asn-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro address-family-capability?	ipi-bgp-types:bgp_adv_rcv_type_t
				+--ro ipv6-next-hop-global?	inet:ipv6-address
				+--ro ipv6-next-hop-local?	inet:ipv6-address
				+--ro remote-port?	int32
				+--ro remote-address?	ipi-bgp-types:bgp_hostname_t
				+--ro local-host?	ipi-bgp-types:bgp_hostname_t
				+--ro ipv4-next-hop?	inet:ipv4-address
				+--ro local-port?	int32
				+--ro default-information-originate?	boolean
				+--ro inbound-path-policy?	boolean
				+--ro outbound-path-policy?	boolean
				+--ro default-originate-information-sent?	cml-data-types:cml_line_t

```

| | | | +--ro graceful-restart?          ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro address-family-dependent-capability?  boolean
| | | | +--ro peer-address-family-table-version?    int32
| | | | +--ro address-family-table-version?        int32
| | | | +--ro forward-status-preserve?            string
| | | | +--ro orf-type-prefix?                   cml-data-types:cml_line_t
| | | | +--ro orf-type-prefix-send-mode?          ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-receive-mode?        ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-old?                cml-data-types:cml_line_t
| | | | +--ro orf-type-prefix-send-mode-old?       ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro orf-type-prefix-receive-mode-old?    ipi-bgp-types:bgp_adv_rcv_type_t
| | | | +--ro prefix-count?                      int32
| | | | +--ro send-prefix-count?                  int32
| | | | +--ro flag-shut-down?                     ipi-bgp-types:bgp_peerflag_shutdown_t
| | | | +--ro count?                             int32
| | | | +--ro notify-info?                       boolean
| | | | +--ro notify-last-reset-time?             string
| | | | +--ro connection-type?                   ipi-bgp-types:bgp_connection_type_t
| | | | +--ro next-connection-timer?              int32
| | | | +--ro connection-dropped-count?          int32
| | | | +--ro graceful-restart-status?            string
| | | | +--ro graceful-restart-time?             int32
| | | | +--ro bgp-established-up-time?           string
| | | | +--ro last-read-time?                    string
| | | | +--ro link-type?                         ipi-bgp-types:bgp_link_type_t
| | | | +--ro ebgp-hop-away-count?               int32
| | | | +--ro router-id?                         inet:ipv4-address
| | | | +--ro advertisement-interval?            int32
| | | | +--ro calculated-hold-time?              int32
| | | | +--ro calculated-keepalive?             int32
| | | | +--ro dynamic-capability?               cml-data-types:cml_line_t
| | | | +--ro route-refresh-capability?          ipi-bgp-types:bgp_route_refresh_cap_type_t
| | | | +--ro no-interface-binding?             boolean
| | | | +--ro additional-path-receive-capability? ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | | +--ro additional-path-send-capability?    ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?

```

```

    | | | | +--ro capability-ipv4-unicast?      ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-label-unicast?      ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
    | | | | +--ro capability-ipv4-multicast?      ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-vpnv4-unicast?      ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-vpnv6-unicast?      ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-rtfilter-unicast?    ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-l2vpn-evpn?          ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-ipv6-unicast?        ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-ipv6-multicast?      ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro capability-ipv6-label-unicast?  ipi-bgp-types:bgp_capability_type_t
    | | | | +--ro evpn-ad-route-count?           uint32 {feature-list:HAVE_BGP_EVPN}?
    | | | | +--ro evpn-mac-ip-route-count?        uint32 {feature-list:HAVE_BGP_EVPN}?
    | | | | +--ro evpn-inclusive-multicast-route-count? uint32 {feature-list:HAVE_BGP_EVPN}?
    | | | | +--ro evpn-segment-route-count?       uint32 {feature-list:HAVE_BGP_EVPN}?
    | | | | +--ro evpn-ip-prefix-route-count?     uint32 {feature-list:HAVE_BGP_EVPN}?
    | | | +--rw timers
    | | | | +--rw config!
    | | | | | +--rw keep-alive   uint16
    | | | | | +--rw hold-time   uint16
    | | | | +--ro state
    | | | | | +--ro keep-alive   uint16
    | | | | | +--ro hold-time   uint16
    | | | +--rw ebgp-multihop
    | | | | +--rw config!
    | | | | | +--rw maximum-hop-count? uint8
    | | | | | +--rw enabled         empty
    | | | | +--ro state
    | | | | | +--ro maximum-hop-count? uint8
    | | | | | +--ro enabled         empty
    | | | +--rw maximum-prefixes
    | | | | +--rw maximum-prefix* [prefix-count]
    | | | | +--rw prefix-count   -> ../config/prefix-count
    | | | | +--rw config
    | | | | | +--rw prefix-count?   uint32
    | | | | | +--rw stop-update?    empty
    | | | | | +--rw maximum-prefix-warning? empty

```

```

| | | | | +--rw threshold-percentage? uint8
| | | | | +--rw warning-only? empty
| | | | | +--ro state
| | | | |   +--ro prefix-count? uint32
| | | | |   +--ro stop-update? empty
| | | | |   +--ro maximum-prefix-warning? empty
| | | | |   +--ro threshold-percentage? uint8
| | | | |   +--ro warning-only? empty
| | | | +--rw bgp-passwords
| | | | | +--rw bgp-password* [password]
| | | | |   +--rw password -> ../config/password
| | | | |   +--rw config
| | | | | | +--rw password? ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | | | +--ro state
| | | | | |   +--ro password? ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | +--rw distribute-list-filters
| | | | | +--rw distribute-list-filter* [filter-direction]
| | | | |   +--rw filter-direction -> ../config/filter-direction
| | | | |   +--rw config
| | | | | | +--rw access-list-identifier string
| | | | | | +--rw filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | | +--ro state
| | | | | |   +--ro access-list-identifier string
| | | | | |   +--ro filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw as-list-filters
| | | | | +--rw as-list-filter* [as-list-direction]
| | | | |   +--rw as-list-direction -> ../config/as-list-direction
| | | | |   +--rw config
| | | | | | +--rw as-access-list-identifier string
| | | | | | +--rw as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | | +--ro state
| | | | | |   +--ro as-access-list-identifier string
| | | | | |   +--ro as-list-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | | +--rw prefix-list-filters

```



```

| | | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | |   +--rw prefix-filter-direction  -> ../config/prefix-filter-direction
| | | |   +--rw config
| | | |     | +--rw prefix-list-name      string
| | | |     | +--rw prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | |     +--ro state
| | | |       +--ro prefix-list-name      string
| | | |       +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | |   +--rw route-map-filters
| | | |     | +--rw route-map-filter* [route-map-direction]
| | | |     |   +--rw route-map-direction  -> ../config/route-map-direction
| | | |     |   +--rw config
| | | |     |     | +--rw route-map-name      string
| | | |     |     | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | |     |     +--ro state
| | | |     |       +--ro route-map-name      string
| | | |     |       +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | | |   +--rw local-as
| | | |     | +--rw local-as-list* [peer-local-as]
| | | |     |   +--rw peer-local-as  -> ../config/peer-local-as
| | | |     |   +--rw config
| | | |     |     | +--rw peer-local-as?      uint32
| | | |     |     | +--rw no-prepend-local-as? empty
| | | |     |     | +--rw replace-local-as?   empty
| | | |     |     +--ro state
| | | |     |       +--ro peer-local-as?      uint32
| | | |     |       +--ro no-prepend-local-as? empty
| | | |     |       +--ro replace-local-as?   empty
| | | |   +--ro outbound-route-filter
| | | |     | +--ro state
| | | |     |   +--ro orf-prefix-string?  boolean
| | | |     |   +--ro orf-prefix-send?    string
| | | |     |   +--ro orf-prefix-count?   string
| | | |     |   +--ro orf-wait-refresh?   boolean
| | | |   +--ro peer-prefix
| | | |     | +--ro state

```

```

| | | | +--ro entry-sequence?  int32
| | | | +--ro entry-type?      ipi-bgp-types:bgp_prefix_entry_type_t
| | | | +--ro entry-max-length? int32
| | | | +--ro entry-min-length? int32
| | | | +--ro prefix-length?   int32
| | |   +--ro peer-index
| | |     +--ro state
| | |       +--ro peer-index?  int32
| | |       +--ro offset?      int32
| | |       +--ro mask?        string
| |   +--rw network-lists
| |     +--rw network-list* [local-network-prefix]
| |       +--rw local-network-prefix  -> ../config/local-network-prefix
| |       +--rw config
| |         | +--rw local-network-prefix? ipi-bgp-types:bgp_ip_network_t
| |         | +--rw network-rmap-name?   string
| |         | +--rw backdoor?            empty
| |         | +--ro state
| |         |   +--ro local-network-prefix?      ipi-bgp-types:bgp_ip_network_t
| |         |   +--ro network-rmap-name?        string
| |         |   +--ro backdoor?                 empty
| |         |   +--ro network-path-route-count? int32
| |         |   +--ro no-advertise-route?       string
| |         |   +--ro no-export-route?          boolean
| |         |   +--ro local-as-route?           boolean
| |         |   +--ro suppress-route?           boolean
| |         |   +--ro network-best-path-route-count? int32
| |         |   +--ro ip-routing-table?         string
| |         |   +--ro advertised-non-peer-group-address* ipi-bgp-types:bgp_hostname_t
| |         |   +--ro advertised-peer-group-name-route* string
| |         |   +--ro advertised-any-peer?       boolean
| |         |   +--ro route-distinguisher-string? string {feature-list:HAVE_MPLS}?
| |       +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
| |       +--rw config
| |         | +--rw validation-enable?  empty
| |         | +--rw bestpath-use-validity? empty

```

```

| | | | +--rw bestpath-allow-invalid? empty
| | | | +--ro state
| | | | +--ro validation-enable? empty
| | | | +--ro bestpath-use-validity? empty
| | | | +--ro bestpath-allow-invalid? empty
| | +--rw peer-groups
| |   +--rw peer-group* [peer-group-tag]
| |     +--rw peer-group-tag -> ../config/peer-group-tag
| |     +--rw config
| |       | +--rw peer-group-range ipi-bgp-types:bgp_peer_group_type_t
| |       | +--rw group-limit? uint16
| |       | +--rw peer-group-tag? string
| |       | +--rw peer-as? uint32
| |       | +--rw source-identifier? string
| |       | +--rw bgp-version? uint8
| |       | +--rw peer-connection-interval? uint32
| |       | +--rw enforce-multihop? empty
| |       | +--rw peer-shutdown? empty
| |       | +--rw peer-shutdown-description? cml-data-types:cml_line_t
| |       | +--rw neighbor-passive? empty
| |       | +--rw connection-retry-interval? int32
| |       | +--rw enable-dynamic-capability? empty
| |       | +--rw min-route-advertisement-interval? uint32
| |       | +--rw peer-as-origin-interval? uint32
| |       | +--rw neighbor-as-override? empty
| |       | +--rw peer-description? cml-data-types:cml_line_t
| |       | +--rw peer-restart-time? uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
| |       | +--rw graceful-shut? empty
| |       | +--rw graceful-shut-timer? uint32
| |       | +--rw enable-peer-bfd? empty {feature-list:HAVE_BFD}?
| |       | +--rw enable-peer-bfd-multihop? empty {feature-list:HAVE_BFD}?
| |       | +--rw enable-ext-opt-param-len? empty
| |       | +--rw tcp-adjust-mss? uint16
| |       | +--rw bgp-port? uint16
| |       | +--rw activate? empty
| |       | +--rw default-peer-route-map-name? empty

```

```

| | | +-rw peer-route-map-orig-name?      string
| | | +-rw weight?                        uint16
| | | +-rw flowspec-validation-disable?    empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +-rw peer-route-reflector?          empty
| | | +-rw peer-remove-private-as?        empty
| | | +-rw no-send-community?              empty
| | | +-rw no-send-community-type?         ipi-bgp-types:bgp_send_commu_type_t
| | | +-rw neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +-rw orf-prefix-capability?         ipi-bgp-types:bgp_orf_prefix_type_t
| | | +-rw peer-allow-ebgp-vpn?           empty {feature-list:HAVE_VRF}?
| | | +-rw allow-as-number?                uint32
| | | +-rw capability-graceful-restart?    empty
| | | +-rw unsuppress-route-map-name?     string
| | | +-rw additional-paths-mode?         ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +-rw additional-path-select-all?    empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +-rw additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +-rw site-origin-identifier?        string {feature-list:HAVE_VRF}?
| | +-ro state
| | | +-ro peer-group-range               ipi-bgp-types:bgp_peer_group_type_t
| | | +-ro group-limit?                   uint16
| | | +-ro peer-group-tag?                 string
| | | +-ro peer-as?                       uint32
| | | +-ro source-identifier?              string
| | | +-ro bgp-version?                   uint8
| | | +-ro peer-connection-interval?      uint32
| | | +-ro enforce-multihop?              empty
| | | +-ro peer-shutdown?                 empty
| | | +-ro peer-shutdown-description?     cml-data-types:cml_line_t
| | | +-ro neighbor-passive?              empty
| | | +-ro connection-retry-interval?     int32
| | | +-ro enable-dynamic-capability?     empty
| | | +-ro min-route-advertisement-interval? uint32
| | | +-ro peer-as-origin-interval?       uint32
| | | +-ro neighbor-as-override?          empty
| | | +-ro peer-description?              cml-data-types:cml_line_t
| | | +-ro peer-restart-time?              uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?

```

```

| | | +--ro graceful-shut?          empty
| | | +--ro graceful-shut-timer?    uint32
| | | +--ro enable-peer-bfd?        empty {feature-list:HAVE_BFD}?
| | | +--ro enable-peer-bfd-multihop?  empty {feature-list:HAVE_BFD}?
| | | +--ro enable-ext-opt-param-len?  empty
| | | +--ro tcp-adjust-mss?          uint16
| | | +--ro bgp-port?               uint16
| | | +--ro activate?               empty
| | | +--ro default-peer-route-map-name?  empty
| | | +--ro peer-route-map-orig-name?  string
| | | +--ro weight?                 uint16
| | | +--ro flowspec-validation-disable?  empty {feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--ro peer-route-reflector?     empty
| | | +--ro peer-remove-private-as?   empty
| | | +--ro no-send-community?        empty
| | | +--ro no-send-community-type?   ipi-bgp-types:bgp_send_commu_type_t
| | | +--ro neighbor-attribute-unchanged?  ipi-bgp-types:bgp_attribute_unchanged_type_t
| | | +--ro orf-prefix-capability?    ipi-bgp-types:bgp_orf_prefix_type_t
| | | +--ro peer-allow-ebgp-vpn?      empty {feature-list:HAVE_VRF}?
| | | +--ro allow-as-number?          uint32
| | | +--ro capability-graceful-restart?  empty
| | | +--ro unsuppress-route-map-name?  string
| | | +--ro additional-paths-mode?    ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-path-select-all?  empty {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro additional-paths-best-select-count?  uint8 {feature-list:HAVE_BGP_ADD_PATH}?
| | | +--ro site-origin-identifier?    string {feature-list:HAVE_VRF}?
| | +--rw optional-as-lists
| | | +--rw optional-as-list* [optional-as]
| | | | +--rw optional-as -> ../config/optional-as
| | | | +--rw config
| | | | | +--rw optional-as? uint32
| | | | +--ro state
| | | | | +--ro optional-as? uint32
| | | +--rw bgp-passwords
| | | | +--rw bgp-password* [password]
| | | | +--rw password -> ../config/password

```

```

| | | +--rw config
| | | | +--rw password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | | +--rw auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | | +--ro state
| | | |   +--ro password?      ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
| | | |   +--ro auth-key-encrypt ipi-bgp-types:bgp_md5_t
| | | +--rw timers
| | | | +--rw config!
| | | | | +--rw keep-alive  uint16
| | | | | +--rw hold-time   uint16
| | | | | +--ro state
| | | | |   +--ro keep-alive  uint16
| | | | |   +--ro hold-time   uint16
| | | +--rw local-as
| | | | +--rw local-as-list* [peer-local-as]
| | | | | +--rw peer-local-as  -> ../config/peer-local-as
| | | | | +--rw config
| | | | | | +--rw peer-local-as?    uint32
| | | | | | +--rw no-prepend-local-as? empty
| | | | | | +--rw replace-local-as? empty
| | | | | +--ro state
| | | | |   +--ro peer-local-as?    uint32
| | | | |   +--ro no-prepend-local-as? empty
| | | | |   +--ro replace-local-as? empty
| | | +--rw ebgp-multihop
| | | | +--rw config!
| | | | | +--rw maximum-hop-count? uint8
| | | | | +--rw enabled              empty
| | | | | +--ro state
| | | | |   +--ro maximum-hop-count? uint8
| | | | |   +--ro enabled              empty
| | | +--rw maximum-prefixes
| | | | +--rw maximum-prefix* [prefix-count]
| | | | | +--rw prefix-count  -> ../config/prefix-count
| | | | | +--rw config
| | | | | | +--rw prefix-count?      uint32

```

```

| | | | +--rw stop-update?          empty
| | | | +--rw maximum-prefix-warning? empty
| | | | +--rw threshold-percentage?  uint8
| | | | +--rw warning-only?          empty
| | | | +--ro state
| | | |   +--ro prefix-count?         uint32
| | | |   +--ro stop-update?          empty
| | | |   +--ro maximum-prefix-warning? empty
| | | |   +--ro threshold-percentage?  uint8
| | | |   +--ro warning-only?          empty
| | | +--rw distribute-list-filters
| | | | +--rw distribute-list-filter* [filter-direction]
| | | |   +--rw filter-direction  -> ../config/filter-direction
| | | |   +--rw config
| | | | | +--rw access-list-identifier  string
| | | | | +--rw filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | +--ro state
| | | | |   +--ro access-list-identifier  string
| | | | |   +--ro filter-direction?      ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw as-list-filters
| | | | +--rw as-list-filter* [as-list-direction]
| | | |   +--rw as-list-direction  -> ../config/as-list-direction
| | | |   +--rw config
| | | | | +--rw as-access-list-identifier  string
| | | | | +--rw as-list-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | +--ro state
| | | | |   +--ro as-access-list-identifier  string
| | | | |   +--ro as-list-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
| | | +--rw prefix-list-filters
| | | | +--rw prefix-list-filter* [prefix-filter-direction]
| | | |   +--rw prefix-filter-direction  -> ../config/prefix-filter-direction
| | | |   +--rw config
| | | | | +--rw prefix-list-name          string
| | | | | +--rw prefix-filter-direction?  ipi-bgp-types:bgp_distribute_list_direction_t
| | | | | +--ro state
| | | | |   +--ro prefix-list-name          string

```

```

| | | +--ro prefix-filter-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--rw route-map-filters
| | +--rw route-map-filter* [route-map-direction]
| | +--rw route-map-direction -> ../config/route-map-direction
| | +--rw config
| | | +--rw route-map-name string
| | | +--rw route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| | +--ro state
| | +--ro route-map-name string
| | +--ro route-map-direction? ipi-bgp-types:bgp_distribute_list_direction_t
| +--rw peer-engineering
| | +--rw config
| | | +--rw enable-epe? empty
| | +--ro state
| | +--ro enable-epe? empty
| +--rw rpki
| | +--rw servers
| | | +--rw server* [server-address]
| | | +--rw server-address -> ../config/server-address
| | | +--rw config
| | | | +--rw server-address? ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
| | | | +--rw server-protocol-type? ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
| | | | +--rw port? uint16
| | | | +--rw user? string
| | | | +--rw password? ipi-bgp-types:bgp_md5_password_t
| | | | +--rw auth-key-encrypt? ipi-bgp-types:bgp_md5_t
| | | | +--rw refresh-interval? uint32
| | | | +--rw retry-interval? uint32
| | | | +--rw expire-interval? uint32
| | | +--ro state
| | | +--ro server-address? ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
| | | +--ro server-protocol-type? ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
| | | +--ro port? uint16
| | | +--ro user? string
| | | +--ro password? ipi-bgp-types:bgp_md5_password_t
| | | +--ro auth-key-encrypt? ipi-bgp-types:bgp_md5_t

```

```

|   |   +--ro refresh-interval?          uint32
|   |   +--ro retry-interval?            uint32
|   |   +--ro expire-interval?           uint32
|   |   +--ro route-to-route-version?    uint8
|   |   +--ro route-to-route-client-state? ipi-bgp-rpki-types:bgp_rpki_rtr_client_state
|   |   +--ro route-to-route-sockets-sync? boolean
|   |   +--ro rpki-uptime?               yang:timeticks
|   |   +--ro ipv4-route-origin-authorizations-count? uint32
|   |   +--ro ipv6-route-origin-authorizations-count? uint32
|   |   +--ro actual-refresh-interval?    uint32
|   |   +--ro actual-retry-interval?      uint32
|   |   +--ro actual-expire-interval?     uint32
|   |   +--ro rest-of-time-to-refresh-interval-expiration? uint32
|   |   +--ro rest-of-time-to-expire-interval-expiration? uint32
|   |   +--ro client-session-to-be-deleted? boolean
|   +--ro tables-ipv4
|   |   +--ro table-ipv4* [prefix-ipv4 max-length as-number server-address]
|   |   |   +--ro prefix-ipv4    -> ../state/prefix-ipv4
|   |   |   +--ro max-length     -> ../state/max-length
|   |   |   +--ro as-number      -> ../state/as-number
|   |   |   +--ro server-address -> ../state/server-address
|   |   |   +--ro state
|   |   |   |   +--ro prefix-ipv4? cml-data-types:cml_ipv4_prefix_t
|   |   |   |   +--ro max-length?  uint8
|   |   |   |   +--ro as-number?   uint32
|   |   |   |   +--ro server-address? ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
|   +--ro tables-ipv6
|   |   +--ro table-ipv6* [prefix-ipv6 max-length as-number server-address]
|   |   |   +--ro prefix-ipv6    -> ../state/prefix-ipv6
|   |   |   +--ro max-length     -> ../state/max-length
|   |   |   +--ro as-number      -> ../state/as-number
|   |   |   +--ro server-address -> ../state/server-address
|   |   |   +--ro state
|   |   |   |   +--ro prefix-ipv6? cml-data-types:cml_ipv6_prefix_t
|   |   |   |   +--ro max-length?  uint8
|   |   |   |   +--ro as-number?   uint32

```

```

|           +--ro server-address?  ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
+--rw flowspec
  +--rw controllers
    +--rw controller* [enable-flowspec-controller]
      +--rw enable-flowspec-controller  -> ../config/enable-flowspec-controller
      +--rw config
        | +--rw enable-flowspec-controller?  empty
        | +--rw local-install?               ipi-bgp-flowspec-types:flowspec_local_install_t
        +--ro state
          | +--ro enable-flowspec-controller?  empty
          | +--ro local-install?               ipi-bgp-flowspec-types:flowspec_local_install_t
        +--rw address-families
          | +--rw address-family* [afi-type]
          |   +--rw afi-type          -> ../config/afi-type
          |   +--rw config
          |     | +--rw afi-type?      ipi-bgp-flowspec-types:flowspec_afi_type_t
          |     | +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
          |     +--ro state
          |       | +--ro afi-type?      ipi-bgp-flowspec-types:flowspec_afi_type_t
          |       | +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
          |       +--rw service-policies
          |         +--rw service-policy* [attached-policy-map-name service-policy-type]
          |         +--rw attached-policy-map-name  -> ../config/attached-policy-map-name
          |         +--rw service-policy-type      -> ../config/service-policy-type
          |         +--rw config
          |           | +--rw attached-policy-map-name?  string
          |           | +--rw service-policy-type?      ipi-enhanced-pbr-types:epbr_policy_map_t
          |           +--ro state
          |             +--ro attached-policy-map-name?  string
          |             +--ro service-policy-type?      ipi-enhanced-pbr-types:epbr_policy_map_t
        +--rw vrfs
          +--rw vrf* [vrf-name]
            +--rw vrf-name          -> ../config/vrf-name
            +--rw config
              | +--rw vrf-name?      string
              | +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t

```

```

+--ro state
| +--ro vrf-name?    string
| +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
+--rw address-families
  +--rw address-family* [afi-type]
    +--rw afi-type      -> ../config/afi-type
    +--rw config
      | +--rw afi-type?    ipi-bgp-flowspec-types:flowspec_afi_type_t
      | +--rw local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
      +--ro state
        | +--ro afi-type?    ipi-bgp-flowspec-types:flowspec_afi_type_t
        | +--ro local-install? ipi-bgp-flowspec-types:flowspec_local_install_t
        +--rw service-policies
          +--rw service-policy* [attached-policy-map-name service-policy-type]
            +--rw attached-policy-map-name -> ../config/attached-policy-map-name
            +--rw service-policy-type     -> ../config/service-policy-type
            +--rw config
              | +--rw attached-policy-map-name? string
              | +--rw service-policy-type?    ipi-enhanced-pbr-types:epbr_policy_map_t
              +--ro state
                +--ro attached-policy-map-name? string
                +--ro service-policy-type?    ipi-enhanced-pbr-types:epbr_policy_map_t

```

rpcs:

```

+---x clear-ip-bgp-peer {feature-list:HAVE_BGPD}?
| +---w input
|   +---w arg          ipi-bgp-types:bgp_hostname_t
|   +---w peer-reset-description? cml-data-types:cml_line_t
+---x clear-peer-group-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
| +---w input
|   +---w peer-group-tag string
|   +---w soft-reconfig ipi-bgp-types:bgp_update_clear_t
+---x clear-ip-bgp-all-peer {feature-list:HAVE_BGPD}?
| +---w input
|   +---w peer-reset-description? cml-data-types:cml_line_t
+---x clear-bgp-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?

```

```

| +---w input
|   +---w soft-reconfig  ipi-bgp-types:bgp_update_clear_t
+---x clear-bgp-remote-as-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
| +---w input
|   +---w peer-as        uint32
|   +---w soft-reconfig  ipi-bgp-types:bgp_update_clear_t
+---x clear-bgp-peer-address-l2vpn-evpn-soft {feature-list:HAVE_BGP_EVPN}?
| +---w input
|   +---w peer-address    ipi-bgp-types:bgp_ip_addr_t
|   +---w soft-reconfig  ipi-bgp-types:bgp_update_clear_t
+---x clear-ip-bgp-all-vrf {feature-list:HAVE_BGPD}?
| +---w input
|   +---w vrf-name        string
|   +---w peer-reset-description?  cml-data-types:cml_line_t
+---x clear-ip-bgp-vrf-peer {feature-list:HAVE_BGPD}?
| +---w input
|   +---w vrf-name        string
|   +---w address         ipi-bgp-types:bgp_hostname_t
|   +---w peer-reset-description?  cml-data-types:cml_line_t
+---x bgp-graceful-restart {feature-list:HAVE_RESTART}?
+---x clear-bgp-statistics {feature-list:HAVE_BGPD}?
+---x bgp-snmp-restart {feature-list:HAVE_BGPD}?
+---x bgp-debug-on {feature-list:HAVE_BGPD}?
| +---w input
|   +---w terminal-debug-options  ipi-bgp-types:bgp_debug_t
+---x bgp-debug-off {feature-list:HAVE_BGPD}?
| +---w input
|   +---w terminal-debug-options  ipi-bgp-types:bgp_debug_t
+---x bgp-all-debug-off {feature-list:HAVE_BGPD}?

```

notifications:

```

+---n bgp-established-notification
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro peer-address?  ipi-bgp-types:bgp_ip_addr_t
| +--ro bgp-as?        uint32

```

```
| +--ro peer-state?   ipi-bgp-types:bgp_peer_status_t
+---n bgp-backward-transition-notification
  +--ro severity?     cml-data-types:cml_notif_severity_t
  +--ro eventClass?   cml-data-types:cml_notif_class_t
  +--ro peer-address? ipi-bgp-types:bgp_ip_addr_t
  +--ro bgp-as?        uint32
  +--ro peer-state?   ipi-bgp-types:bgp_peer_status_t
```

ipi-bridge-domain

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```
+--rw bridge-domain {feature-list:HAVE_SUBINTERFACE,feature-
list:NOT_HAVE_CUSTOM1_SUBINTERFACE,feature-list:NOT_HAVE_SWFWDR}?
  +--rw config
    | +--rw domain-id?      -> /ipi-network-instance:network-instances/network-instance/instance-name
    | +--rw description?    cml-data-types:cml_line_t
    | +--rw route-interface? -> /ipi-interface:interfaces/interface/name
    +--rw bridge-instance
      | +--rw config!
      | | +--rw instance-id  uint8
      | | +--rw bridge-id    string
      | +--ro state
      |   +--ro instance-id  uint8
      |   +--ro bridge-id    string
      +--ro state
        | +--ro domain-id?    -> /ipi-network-instance:network-instances/network-instance/instance-name
        | +--ro description?  cml-data-types:cml_line_t
        | +--ro route-interface? -> /ipi-interface:interfaces/interface/name
        +--rw member-interfaces
          | +--rw member-interface* [name]
          |   +--rw name      -> ../config/name
          |   +--rw config
          |     | +--rw name? -> /ipi-interface:interfaces/interface/name
          |     +--ro state
          |       +--ro name? -> /ipi-interface:interfaces/interface/name
```

```

+--rw bridge-domain-mac-table
  +--rw static-entry* [mac-address]
    | +--rw mac-address -> ../config/mac-address
    | +--rw config
    | | +--rw mac-address? cml-data-types:cml_mac_addr_t
    | | +--rw action ipi-bridge-types:bridge_domain_forward_deny_t
    | | +--rw interface-name -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name
    | +--ro state
    | +--ro mac-address? cml-data-types:cml_mac_addr_t
    | +--ro action ipi-bridge-types:bridge_domain_forward_deny_t
    | +--ro interface-name -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name
    +--ro dynamic-entry* [mac-address]
      +--ro mac-address -> ../state/mac-address
      +--ro state
        +--ro mac-address? cml-data-types:cml_mac_addr_t
        +--ro interface-name? -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-
interfaces/member-interface/config/name

```

ipi-bridge

```

+--rw global-bridge-vlan-check
  +--rw global
    +--rw config
    | +--rw enable? empty
    +--ro state
      +--ro enable? empty

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw bridge
  +--rw config!
    | +--rw protocol ipi-bridge-types:bridge_protocol_t
    | +--rw disable-dynamic-learning? empty
    | +--rw l2-protocol-destination-mac? cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
    | +--rw dot1ad-encapsulation? empty {feature-list:HAVE_DUNE}?

```

```

+--ro state
| +--ro protocol          ipi-bridge-types:bridge_protocol_t
| +--ro disable-dynamic-learning?   empty
| +--ro l2-protocol-destination-mac? cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
| +--ro dot1ad-encapsulation?       empty {feature-list:HAVE_DUNE}?
+--rw bridge-ports
| +--rw interface* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|     | +--rw name?          -> /ipi-interface:interfaces/interface/name
|     | +--rw spanning-tree-protocol-status? ipi-bridge-types:bridge_spanningtree_enable_disable_t
|     +--ro state
|       +--ro name?          -> /ipi-interface:interfaces/interface/name
|       +--ro spanning-tree-protocol-status? ipi-bridge-types:bridge_spanningtree_enable_disable_t
|       +--ro switchport-mode?          ipi-port-vlan-types:port_vlan_switch_port_mode_t
+--rw fdb
  +--rw interfaces
  | +--rw interface* [interface-name]
  |   +--rw interface-name  -> ../config/interface-name
  |   +--rw config
  |     | +--rw interface-name?    -> /ipi-interface:interfaces/interface/name
  |     | +--rw disable-mac-learning  empty
  |     +--ro state
  |       +--ro interface-name?    -> /ipi-interface:interfaces/interface/name
  |       +--ro disable-mac-learning  empty
  +--rw static-mac-table
  | +--rw entry* [mac-address]
  |   +--rw mac-address  -> ../config/mac-address
  |   +--rw config
  |     | +--rw interface-name  -> /ipi-interface:interfaces/interface/name
  |     | +--rw mac-address?    cml-data-types:cml_mac_addr_t
  |     | +--rw action          ipi-bridge-types:bridge_discardforward_t
  |     +--ro state
  |       +--ro interface-name  -> /ipi-interface:interfaces/interface/name
  |       +--ro mac-address?    cml-data-types:cml_mac_addr_t
  |       +--ro action          ipi-bridge-types:bridge_discardforward_t

```

```

+--rw dynamic-mac-table
  +--ro entry* [mac-address vlan-id] {feature-list:HAVE_HAL}?
    +--ro mac-address  -> ../state/mac-address
    +--ro vlan-id      -> ../state/vlan-id
    +--ro state {feature-list:HAVE_HAL}?
      +--ro mac-address?  cml-data-types:cml_mac_addr_t
      +--ro vlan-id?      uint16
      +--ro svlan-id?     uint16 {feature-list:HAVE_PROVIDER_BRIDGE}?
      +--ro interface-name? -> /ipi-interface:interfaces/interface/name
      +--ro action?       ipi-bridge-types:bridge_discardforward_t
      +--ro entry-time-out? uint32

```

rpcs:

```

+---x bridge-clear-provider-edge-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w mac-type    ipi-bridge-types:bridge_mac_type_t
|   +---w cvlan-id    uint16
|   +---w svlan-id    uint16
|   +---w bridge-id   string
+---x bridge-clear-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w mac-type      ipi-bridge-types:bridge_mac_type_t
|   +---w bridge-id     string
|   +---w interface-name? string
|   +---w mac-address?  cml-data-types:cml_mac_addr_t
|   +---w vlan-id?      uint16
+---x bridge-clear-provider-edge-dynamic-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w cvlan-id    uint16
|   +---w svlan-id    uint16
|   +---w bridge-id   string
+---x bridge-clear-dynamic-mac-address-table {feature-list:HAVE_L2}?
| +---w input
|   +---w bridge-id     string
|   +---w mac-address?  cml-data-types:cml_mac_addr_t
|   +---w interface-name? string

```



```
|   +---w vlan-id?      uint16
+---x bridge-clear-mstp-port-dynamic-mac-address-table {feature-list:HAVE_L2}?
  +---w input
    +---w interface-name  string
    +---w instance-id     uint32
    +---w bridge-id       string
```

ipi-cfm

```
+--rw cfm {feature-list:HAVE_CFM}?
  +--rw global
    | +--ro loopback
    | | +--ro state
    | |   +--ro counters
    | |     +--ro messages-transmitted?      yang:zero-based-counter32
    | |     +--ro replies-received?          yang:zero-based-counter32
    | |     +--ro out-of-order-replies-received? yang:zero-based-counter32
    | |     +--ro bad-msdu?                  yang:zero-based-counter32
    | +--rw linktrace
    | | +--rw cache
    | | | +--rw config!
    | | | | +--rw cache-enable  empty
    | | | | +--rw cache-size?   uint16
    | | | +--ro state
    | | |   +--ro cache-enable  empty
    | | |   +--ro cache-size?   uint16
    | | +--ro state
    | |   +--ro counters
    | |     +--ro messages-transmitted?      yang:zero-based-counter32
    | |     +--ro replies-transmitted?       yang:zero-based-counter32
    | |     +--ro valid-replies-received?    yang:zero-based-counter32
    | |     +--ro unexpected-replies-received? yang:zero-based-counter32
```

```

| +--rw nvo3-oam
|   +--rw config
|     | +--rw enable?  empty
|     | +--rw mode?    ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
|     +--ro state
|       +--ro enable?  empty
|       +--ro mode?    ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
+--rw debug
| +--rw config
| | +--rw options? ipi-cfm-data-types:cfm_debug_t
| +--ro state
|   +--ro options?      ipi-cfm-data-types:cfm_debug_t
|   +--ro terminal-debug-status? ipi-cfm-data-types:cfm_debug_t
+--rw maintenance-domains
| +--rw maintenance-domain* [md-name]
|   +--rw md-name          -> ../config/md-name
|   +--rw config
|     | +--rw md-name?    string
|     | +--rw type        ipi-cfm-data-types:cfm_md_type_t
|     | +--rw level       uint8
|     | +--rw mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|     +--ro state
|       | +--ro md-name?    string
|       | +--ro type        ipi-cfm-data-types:cfm_md_type_t
|       | +--ro level       uint8
|       | +--ro mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|       +--rw maintenance-associations
|         | +--rw maintenance-association* [ma-name]
|         |   +--rw ma-name          -> ../config/ma-name
|         |   +--rw config
|         |     | +--rw mip-creation?      ipi-cfm-data-types:cfm_ma_mip_creation_mode_t
|         |     | +--rw vlan-id?           uint16
|         |     | +--rw inner-vlan-id?     uint16
|         |     | +--rw bridge-id?        -> /ipi-network-instance:network-instances/network-instance/instance-name
|         |     | +--rw link-level-ma?     empty
|         |     | +--rw mip-interface-name* -> /ipi-interface:interfaces/interface/name {feature-
list:HAVE_PROVIDER_BRIDGE}?

```

```
| | | +-rw evpn-id?          uint32 {feature-list:HAVE_BGP_EVPN,feature-  
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?  
| | | +-rw vpws-vc-name?      string {feature-list:HAVE_MPLS_VC,feature-  
list:NOT_HAVE_CUSTOM1_MPLS}?  
| | | +-rw ma-name?           string  
| | | +-rw type                ipi-cfm-data-types:cfm_ma_type_t  
| | | +-rw ccm-interval?       ipi-cfm-data-types:cfm_msg_interval_t  
| | | +-rw enable-rmep-auto-discovery? empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?  
| | | +-rw static-rmep-identifiers* uint16  
| | +-ro state  
| | | +-ro mip-creation?       ipi-cfm-data-types:cfm_ma_mip_creation_mode_t  
| | | +-ro vlan-id?            uint16  
| | | +-ro inner-vlan-id?      uint16  
| | | +-ro bridge-id?          -> /ipi-network-instance:network-instances/network-instance/instance-name  
| | | +-ro link-level-ma?      empty  
| | | +-ro mip-interface-name* -> /ipi-interface:interfaces/interface/name {feature-  
list:HAVE_PROVIDER_BRIDGE}?  
| | | +-ro evpn-id?          uint32 {feature-list:HAVE_BGP_EVPN,feature-  
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?  
| | | +-ro vpws-vc-name?      string {feature-list:HAVE_MPLS_VC,feature-  
list:NOT_HAVE_CUSTOM1_MPLS}?  
| | | +-ro ma-name?           string  
| | | +-ro type                ipi-cfm-data-types:cfm_ma_type_t  
| | | +-ro ccm-interval?       ipi-cfm-data-types:cfm_msg_interval_t  
| | | +-ro enable-rmep-auto-discovery? empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?  
| | | +-ro static-rmep-identifiers* uint16  
| | +-rw maintenance-end-points  
| | | +-rw maintenance-end-point* [mep-id]  
| | |   +-rw mep-id            -> ../config/mep-id  
| | |   +-rw config  
| | | | +-rw mep-id?           uint16  
| | | | +-rw direction         ipi-cfm-data-types:cfm_mep_direction_t  
| | | | +-rw administrative-state ipi-cfm-data-types:cfm_mep_state_t  
| | | | +-rw mep-outer-vlan?    uint16  
| | | | +-rw mep-inner-vlan?    uint16  
| | | | +-rw bw-mapped-interface? -> /ipi-interface:interfaces/interface/name  
| | | | +-rw interface-name?    -> /ipi-interface:interfaces/interface/name  
| | | | +-rw remote-vpws-vc-name? string
```

```

| | | | +--rw remote-evpn-id?      uint32 {feature-list:NOT_HAVE_MARVELL}?
| | | | +--rw remote-vtep-ip?      inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
| | | | +--ro state
| | | | +--ro mep-id?              uint16
| | | | +--ro direction            ipi-cfm-data-types:cfm_mep_direction_t
| | | | +--ro administrative-state  ipi-cfm-data-types:cfm_mep_state_t
| | | | +--ro mep-outer-vlan?      uint16
| | | | +--ro mep-inner-vlan?     uint16
| | | | +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
| | | | +--ro remote-vpws-vc-name? string
| | | | +--ro remote-evpn-id?      uint32 {feature-list:NOT_HAVE_MARVELL}?
| | | | +--ro mac-address?         cml-data-types:cml_mac_addr_t
| | | | +--ro ma-status?           ipi-cfm-data-types:cfm_ma_status_t
| | | | +--ro mep-connectivity-status? ipi-cfm-data-types:cfm_mep_connectivity_status_t
| | | | +--ro bw-mapped-interface? -> /ipi-interface:interfaces/interface/name
| | | | +--ro remote-vtep-ip?      inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
| | | | +--rw continuity-check
| | | | +--rw config
| | | | | +--rw enable-cc-multicast? empty
| | | | | +--rw lowest-fault-priority-defect? ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
| | | | | +--rw mep-rmep-auto-discovery?     empty {feature-list:HAVE_DUNE}?
| | | | | +--rw mep-rmep-cross-check*        uint16 {feature-list:HAVE_DUNE}?
| | | | | +--ro state
| | | | | | +--ro enable-cc-multicast?        empty
| | | | | | +--ro lowest-fault-priority-defect? ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
| | | | | | +--ro mep-rmep-auto-discovery?     empty {feature-list:HAVE_DUNE}?
| | | | | | +--ro mep-rmep-cross-check*        uint16 {feature-list:HAVE_DUNE}?
| | | | | | +--ro highest-priority-defect-found? ipi-cfm-data-types:cfm_mep_highest_fault_defect_t
| | | | | | +--ro cc-received-defect?          ipi-cfm-data-types:cfm_received_ccm_defect_t
| | | | | | +--ro cc-messages-received?        yang:zero-based-counter32
| | | | | | +--ro cc-messages-sent?            yang:zero-based-counter32
| | | | | +--ro remote-mep-database
| | | | | | +--ro remote-mep* [rmep-id]
| | | | | | | +--ro rmep-id -> ../state/rmep-id
| | | | | | | +--ro state
| | | | | | | +--ro rmep-id?      uint16

```

```

| | | | | +--ro mac-address? cml-data-types:cml_mac_addr_t
| | | | | +--ro rdi?         empty
| | | | | +--ro evpn-ccms
| | | | | +--ro evpn-ccm* [remote-mep-id]
| | | | | +--ro remote-mep-id -> ../state/remote-mep-id
| | | | | +--ro state
| | | | | +--ro remote-mep-id?      uint32
| | | | | +--ro last-good-flow-id?  uint32
| | | | | +--ro last-recovered-flow-id? uint32
| | | | | +--ro first-good-sequence-number? uint32
| | | | | +--ro last-good-sequence-number? uint32
| | | | | +--ro flow-state?          ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
| | | | | +--ro last-flapped-time?   yang:date-and-time
| | | | | +--ro last-recovered-time?  yang:date-and-time
| | | | +--ro loopback
| | | | +--ro last-test-result
| | | | +--ro state
| | | | +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
| | | | +--ro messages-transmitted? yang:zero-based-counter32
| | | | +--ro replies-received?     yang:zero-based-counter32
| | | +--ro linktrace-database
| | | | +--ro linktrace-entry* [transaction-id]
| | | | +--ro transaction-id -> ../state/transaction-id
| | | | +--ro state
| | | | | +--ro transaction-id?      uint32
| | | | | +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
| | | | +--ro replies
| | | | +--ro reply* [index]
| | | | +--ro index -> ../state/index
| | | | +--ro state
| | | | | +--ro index?              uint8
| | | | | +--ro hops?              uint8
| | | | | +--ro destination-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
| | | | | +--ro relay-action?       ipi-cfm-data-types:cfm_relay_action_t
| | | +--ro mep-nvo-operational
| | | | +--ro state

```

```

| | | | +--ro direction?          ipi-cfm-data-types:cfm_mep_direction_t
| | | | +--ro administrative-state? ipi-cfm-data-types:cfm_mep_state_t
| | | | +--ro remote-vtep-ip?      inet:ipv4-address
| | | +--rw ethernet-bandwidth-notification {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--rw config!
| | | | | +--rw enable-receive      empty
| | | | | +--rw wait-to-restore-timer? uint32
| | | | | +--rw peer-port-id?       uint32
| | | | | +--rw adaptive-bandwidth-disable? empty
| | | | +--ro state
| | | | | +--ro enable-receive      empty
| | | | | +--ro wait-to-restore-timer? uint32
| | | | | +--ro peer-port-id?       uint32
| | | | | +--ro adaptive-bandwidth-disable? empty
| | | | | +--ro nominal-bandwidth?  string
| | | | | +--ro current-bandwidth?  string
| | | | | +--ro signal-state?       ipi-cfm-data-types:cfm_bn_csf_signal_state_t
| | | | | +--ro messages-received?  yang:zero-based-counter32
| | | | | +--ro messages-dropped?   yang:zero-based-counter32
| | | | | +--ro last-message-received-time? string
| | | | | +--ro message-rx-interval? uint8
| | | | | +--ro peer-mac-address?    cml-data-types:cml_mac_addr_t
| | | | | +--ro mep-interface-name?  string
| | | | | +--ro wait-to-restore-time-remaining? uint32
| | | | | +--ro peer-port-identifier? uint32
| | | | | +--ro curr-state-elapsed-time? string
| | | +--rw ethernet-client-signal-fail {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--rw config!
| | | | | +--rw enable-receive      empty
| | | | | +--rw wait-to-restore-timer? uint32
| | | | +--ro state
| | | | | +--ro enable-receive      empty
| | | | | +--ro wait-to-restore-timer? uint32
| | | | | +--ro signal-state?       ipi-cfm-data-types:cfm_bn_csf_signal_state_t
| | | | | +--ro messages-received?  yang:zero-based-counter32
| | | | | +--ro messages-dropped?   yang:zero-based-counter32

```

```

| | | | +--ro last-message-received-time?    string
| | | | +--ro wait-to-restore-time-remaining? uint32
| | | | +--ro message-rx-interval?           uint8
| | | | +--ro peer-mac-address?              cml-data-types:cml_mac_addr_t
| | | | +--ro mep-interface-name?           string
| | | +--rw ethernet-locked-signal {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--rw config!
| | | | | +--rw lock-state      ipi-cfm-data-types:cfm_mep_lck_t
| | | | | +--rw client-md-level? uint8
| | | | | +--rw interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--rw priority?      uint8
| | | | +--ro state
| | | | | +--ro lock-state      ipi-cfm-data-types:cfm_mep_lck_t
| | | | | +--ro client-md-level? uint8
| | | | | +--ro interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--ro priority?      uint8
| | | | | +--ro receive-status? boolean
| | | | | +--ro transmit-status? boolean
| | | | | +--ro messages-received? yang:zero-based-counter32
| | | | | +--ro messages-transmitted? yang:zero-based-counter32
| | | +--rw ethernet-alarm-indication-signal {feature-list:HAVE_CFM_Y1731}?
| | | | +--rw config!
| | | | | +--rw enable-status    empty
| | | | | +--rw client-md-level  uint8
| | | | | +--rw interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | +--ro state
| | | | | +--ro enable-status    empty
| | | | | +--ro client-md-level  uint8
| | | | | +--ro interval?      ipi-cfm-data-types:cfm_y1731_tx_interval_t
| | | | | +--ro is-ais-frame-received? boolean
| | | +--rw y1731-responders {feature-list:HAVE_CFM_Y1731}?
| | | | +--rw config
| | | | | +--rw enable-lm-responder? ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | | +--rw enable-dm-responder? empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | +--ro state

```

```

| | | | +--ro enable-lm-responder? ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | +--ro enable-dm-responder? empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| | | | +--rw ethernet-test-signal {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--ro state
| | | | +--ro rmep-id? uint16
| | | | +--ro peer-mac-address? cml-data-types:cml_mac_addr_t
| | | | +--ro session-status? ipi-cfm-data-types:cfm_tst_session_status_t
| | | | +--ro start-time? yang:date-and-time
| | | | +--ro end-time? yang:date-and-time
| | | | +--ro elapsed-time? uint32
| | | | +--ro in-test-frames? yang:zero-based-counter64
| | | | +--ro in-out-of-order-frames? yang:zero-based-counter64
| | | | +--ro in-ber-error-frames? yang:zero-based-counter64
| | | | +--ro last-packet-sequence-number? uint64
| | | | +--ro out-test-frames? yang:zero-based-counter64
| | | | +--ro ethernet-loss-measurements {feature-list:Y1731_HW_OFFLOAD}?
| | | | +--ro current-measurement
| | | | | +--ro state
| | | | | +--ro counters
| | | | | | +--ro near-end-loss? uint32
| | | | | | +--ro far-end-loss? uint32
| | | | | | +--ro near-end-accumulated-loss? uint32
| | | | | | +--ro far-end-accumulated-loss? uint32
| | | | | | +--ro near-end-frame-loss-ratio? uint32
| | | | | | +--ro far-end-frame-loss-ratio? uint32
| | | | | | +--ro near-end-frame-loss-ratio-min? uint32
| | | | | | +--ro far-end-frame-loss-ratio-min? uint32
| | | | | | +--ro near-end-frame-loss-ratio-max? uint32
| | | | | | +--ro far-end-frame-loss-ratio-max? uint32
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_lm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro start-time? yang:date-and-time
| | | | | +--ro session-status? ipi-cfm-data-types:cfm_pm_session_status_t
| | | | +--ro historic-measurements

```

```

| | | | +--ro historic-measurement* [measurement-id]
| | | |   +--ro measurement-id  -> ../state/measurement-id
| | | |   +--ro state
| | | |     +--ro counters
| | | |       | +--ro near-end-loss?          uint32
| | | |       | +--ro far-end-loss?          uint32
| | | |       | +--ro near-end-accumulated-loss?  uint32
| | | |       | +--ro far-end-accumulated-loss?  uint32
| | | |       | +--ro near-end-frame-loss-ratio?  uint32
| | | |       | +--ro far-end-frame-loss-ratio?  uint32
| | | |       | +--ro near-end-frame-loss-ratio-min?  uint32
| | | |       | +--ro far-end-frame-loss-ratio-min?  uint32
| | | |       | +--ro near-end-frame-loss-ratio-max?  uint32
| | | |       | +--ro far-end-frame-loss-ratio-max?  uint32
| | | |       +--ro measurement-id?  uint16
| | | |       +--ro suspect-status?  boolean
| | | |       +--ro measurement-type?  ipi-cfm-data-types:cfm_lm_measurement_type_t
| | | |       +--ro elapsed-time?  uint32
| | | |       +--ro end-time?  yang:date-and-time
| | | +--ro ethernet-delay-measurements {feature-list:Y1731_HW_OFFLOAD}?
| | |   +--ro current-measurement
| | |     | +--ro state
| | |       | | +--ro measurement-id?          uint16
| | |       | | +--ro suspect-status?          boolean
| | |       | | +--ro measurement-type?          ipi-cfm-data-types:cfm_dm_measurement_type_t
| | |       | | +--ro elapsed-time?          uint32
| | |       | | +--ro start-time?          yang:date-and-time
| | |       | | +--ro session-status?          ipi-cfm-data-types:cfm_pm_session_status_t
| | |       | | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
| | |       | | | +--ro min?  yang:gauge32
| | |       | | | +--ro max?  yang:gauge32
| | |       | | | +--ro avg?  yang:gauge32
| | |       | | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
| | |       | |   +--ro min?  yang:gauge32
| | |       | |   +--ro max?  yang:gauge32
| | |       | |   +--ro avg?  yang:gauge32

```

```

| | | | +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number
| | | | | +--ro state
| | | | | +--ro bin-number? uint8
| | | | | +--ro threshold? uint32
| | | | | +--ro counter? yang:gauge32
| | | | +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro inter-frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number
| | | | | +--ro state
| | | | | +--ro bin-number? uint8
| | | | | +--ro threshold? uint32
| | | | | +--ro counter? yang:gauge32
| | | +--ro historic-measurements
| | | | +--ro historic-measurement* [measurement-id]
| | | | +--ro measurement-id -> ../state/measurement-id
| | | | +--ro state
| | | | | +--ro measurement-id? uint16
| | | | | +--ro suspect-status? boolean
| | | | | +--ro measurement-type? ipi-cfm-data-types:cfm_dm_measurement_type_t
| | | | | +--ro elapsed-time? uint32
| | | | | +--ro end-time? yang:date-and-time
| | | | | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
| | | | | | +--ro min? yang:gauge32
| | | | | | +--ro max? yang:gauge32
| | | | | | +--ro avg? yang:gauge32
| | | | | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
| | | | | | +--ro min? yang:gauge32
| | | | | | +--ro max? yang:gauge32
| | | | | | +--ro avg? yang:gauge32
| | | | +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | | | +--ro frame-delay-bin* [bin-number]
| | | | | +--ro bin-number -> ../state/bin-number
| | | | | +--ro state
| | | | | +--ro bin-number? uint8

```

```

| | | | +--ro threshold? uint32
| | | | +--ro counter? yang:gauge32
| | | +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
| | | +--ro inter-frame-delay-bin* [bin-number]
| | | +--ro bin-number -> ../state/bin-number
| | | +--ro state
| | | +--ro bin-number? uint8
| | | +--ro threshold? uint32
| | | +--ro counter? yang:gauge32
| | +--ro default-mips
| | | +--ro default-mip* [interface-name]
| | | +--ro interface-name -> ../state/interface-name
| | | +--ro state
| | | +--ro interface-name? string
| | | +--ro vlan-id? uint16
| | | +--ro mac-address? cml-data-types:cml_mac_addr_t
| | +--ro ma-nvo-operational
| | +--ro state
| | +--ro type? ipi-cfm-data-types:cfm_ma_type_t
| | +--ro vnid? uint32
| | +--ro vlan-id? uint16
| +--ro md-nvo-operational
| +--ro state
| +--ro type? ipi-cfm-data-types:cfm_md_type_t
| +--ro level? uint8
| +--ro mip-creation? ipi-cfm-data-types:cfm_mip_creation_mode_t
+--rw ethernet-test-signal-profiles {feature-list:Y1731_HW_OFFLOAD}?
| +--rw ethernet-test-signal-profile* [profile-name]
| +--rw profile-name -> ../config/profile-name
| +--rw config
| | +--rw profile-name? string
| | +--rw mode? ipi-cfm-data-types:cfm_test_mode_t
| | +--rw test-type? ipi-cfm-data-types:cfm_test_type_t
| | +--rw frame-size? ipi-cfm-data-types:cfm_test_framesize_type_t
| | +--rw pattern-type? ipi-cfm-data-types:cfm_test_pattern_type_t
| +--ro state

```

```

| | +--ro profile-name? string
| | +--ro mode? ipi-cfm-data-types:cfm_test_mode_t
| | +--ro test-type? ipi-cfm-data-types:cfm_test_type_t
| | +--ro frame-size? ipi-cfm-data-types:cfm_test_framesize_type_t
| | +--ro pattern-type? ipi-cfm-data-types:cfm_test_pattern_type_t
| +--rw excess-information-rate
| | +--rw config {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
| | | +--rw eir? uint64
| | | +--rw eir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--rw eir-cos? uint8
| | | +--rw eir-dei? uint8
| | +--ro state {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
| | | +--ro eir? uint64
| | | +--ro eir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--ro eir-cos? uint8
| | | +--ro eir-dei? uint8
| +--rw committed-information-rate
| | +--rw config {feature-list:Y1731_HW_OFFLOAD}?
| | | +--rw cir? uint64
| | | +--rw cir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--rw cir-cos? uint8
| | | +--rw cir-dei? uint8
| | +--ro state
| | | +--ro cir? uint64
| | | +--ro cir-unit? ipi-cfm-data-types:cfm_test_rate_unit_t
| | | +--ro cir-cos? uint8
| | | +--ro cir-dei? uint8
+--rw ethernet-loss-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +--rw ethernet-loss-measurement-profile* [profile-name]
| +--rw profile-name -> ../config/profile-name
| +--rw config
| | +--rw profile-name? string
| | +--rw measurement-type? ipi-cfm-data-types:cfm_lm_measurement_type_t
| | +--rw measurement-interval? uint32
| | +--rw message-period? ipi-cfm-data-types:cfm_msg_interval_t
| | +--rw intervals-stored? uint16

```

```

|  +--ro state
|  +--ro profile-name?      string
|  +--ro measurement-type?   ipi-cfm-data-types:cfm_lm_measurement_type_t
|  +--ro measurement-interval? uint32
|  +--ro message-period?     ipi-cfm-data-types:cfm_msg_interval_t
|  +--ro intervals-stored?   uint16

+--rw ethernet-delay-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  +--rw ethernet-delay-measurement-profile* [profile-name]
    +--rw profile-name    -> ../config/profile-name
    +--rw config
      | +--rw profile-name?      string
      | +--rw measurement-interval? uint16
      | +--rw message-period?     ipi-cfm-data-types:cfm_msg_interval_t
      | +--rw intervals-stored?   uint16
      | +--rw bins-per-fd-interval? uint8
      | +--rw bins-per-ifdv-interval? uint8
    +--ro state
      | +--ro profile-name?      string
      | +--ro measurement-interval? uint16
      | +--ro message-period?     ipi-cfm-data-types:cfm_msg_interval_t
      | +--ro intervals-stored?   uint16
      | +--ro bins-per-fd-interval? uint8
      | +--ro bins-per-ifdv-interval? uint8
    +--rw bin-thresholds
      +--rw bin-threshold* [type bin-number]
        +--rw type      -> ../config/type
        +--rw bin-number -> ../config/bin-number
        +--rw config
          | +--rw type?      ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
          | +--rw bin-number? uint8
          | +--rw threshold  uint32
        +--ro state
          +--ro type?      ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
          +--ro bin-number? uint8
          +--ro threshold  uint32

```

rpcs:

```
+---x cfm-l2-abort-eth-test-signal {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w mep-id      uint16
|   +---w ma-name     string
|   +---w domain-name string
+---x cfm-l2-eth-test-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w test-target  ipi-cfm-data-types:cfm_rmep_type_t
|   +---w mep-id      uint16
|   +---w ma-name     string
|   +---w md-name     string
|   +---w profile-name string
|   +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w start-time   uint32
|   +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w stop-time    uint32
+---x cfm-l2-eth-test-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w test-target  ipi-cfm-data-types:cfm_rmep_type_t
|   +---w mep-id      uint16
|   +---w ma-name     string
|   +---w md-name     string
|   +---w profile-name string
|   +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time   string
|   +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w stop-time    uint32
+---x cfm-l2-eth-test-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w test-target  ipi-cfm-data-types:cfm_rmep_type_t
|   +---w mep-id      uint16
|   +---w ma-name     string
|   +---w md-name     string
|   +---w profile-name string
|   +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
```

```

| +---w start-time      uint32
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time       string
+---x cfm-l2-eth-test-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w test-target     ipi-cfm-data-types:cfm_rmep_type_t
| +---w mep-id          uint16
| +---w ma-name         string
| +---w md-name         string
| +---w profile-name    string
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time       string
+---x cfm-l2-eth-lm-start-proactive {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16

```

```

| +---w profile-name      string
| +---w rmep-id           ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type   ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time        string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
|   +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
|   +---w stop-time      string
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
|   +---w start-time     string
|   +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name        string
|   +---w ma-name        string
|   +---w mep-id         uint16
|   +---w profile-name   string
|   +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t

```

```

| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time      string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name        string
| +---w ma-name        string
| +---w mep-id         uint16
| +---w profile-name   string
| +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time     string
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time      string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name        string
| +---w ma-name        string
| +---w mep-id         uint16
| +---w profile-name   string
| +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time     string
| +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name        string
| +---w ma-name        string
| +---w mep-id         uint16
| +---w profile-name   string
| +---w rmep-id        ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time     string

```

```

|   +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
|   +---w stop-time        string
|   +---w repetition-period yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
|   +---w profile-name     string
|   +---w rmep-id          ipi-cfm-data-types:cfm_rmep_type_t
|   +---w start-time-type  ipi-cfm-data-types:cfm_absolute_time_t
|   +---w start-time       string
|   +---w stop-time-type   ipi-cfm-data-types:cfm_absolute_time_t
|   +---w stop-time        string
|   +---w repetition-period yang:timeticks
+---x cfm-l2-abort-eth-lm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name  string
|   +---w ma-name  string
|   +---w mep-id   uint16
+---x cfm-l2-clear-eth-lm-history-stats {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name  string
|   +---w ma-name  string
|   +---w mep-id   uint16
+---x cfm-l2-eth-dm-start-proactive {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|   +---w md-name    string
|   +---w ma-name    string
|   +---w mep-id     uint16
|   +---w profile-name string
|   +---w rmep-id    ipi-cfm-data-types:cfm_rmep_type_t
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input

```

```

| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id      ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_start_time_immediate_t
| +---w stop-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string

```

```

| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time       string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-relative-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name         string
| +---w ma-name         string
| +---w mep-id          uint16
| +---w profile-name    string
| +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w start-time      string
| +---w stop-time-type  ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time       string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name         string

```

```

| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_stop_time_none_t
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_relative_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name      string
| +---w ma-name      string
| +---w mep-id       uint16
| +---w profile-name  string
| +---w rmep-id       ipi-cfm-data-types:cfm_rmep_type_t
| +---w start-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w start-time    string
| +---w stop-time-type ipi-cfm-data-types:cfm_absolute_time_t
| +---w stop-time     string
| +---w repetition-period yang:timeticks
+---x cfm-l2-abort-eth-dm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input

```

```
| +---w md-name  string
| +---w ma-name  string
| +---w mep-id   uint16
+---x cfm-l2-clear-eth-dm-history-stats {feature-list:HAVE_CFM,Y1731,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
| +---w md-name  string
| +---w ma-name  string
| +---w mep-id   uint16
+---x cfm-l2-clear-eth-csf-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w mep-id   uint16
| +---w md-name  string
| +---w ma-name  string
+---x cfm-l2-clear-eth-bn-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w mep-id   uint16
| +---w md-name  string
| +---w ma-name  string
+---x cfm-l2-clear-eth-lck-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w mep-id   uint16
| +---w md-name  string
| +---w ma-name  string
+---x cfm-l2-clear-eth-test-signal-stats {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
| +---w md-name  string
| +---w ma-name  string
| +---w mep-id   uint16
| +---w stats-type  ipi-cfm-data-types:cfm_test_stats_type_t
+---x cfm-l2-clear-ethernet-remote-meps {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
| +---w input
| +---w domain-name  string
+---x cfm-clear-all-mep-stats {feature-list:HAVE_CFM}?
+---x cfm-l2-clear-mep-stats {feature-list:HAVE_CFM}?
| +---w input
| +---w domain-name  string
```

```

|   +---w mep-id      uint16
|   +---w ma-name     string
+---x cfm-snmpp-restart {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
+---x cfm-terminal-debug-on {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w terminal-debug-options  ipi-cfm-data-types:cfm_debug_t
+---x cfm-terminal-debug-off {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w terminal-debug-options  ipi-cfm-data-types:cfm_debug_t
+---x cfm-l2-test-loopback {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w md-name     string
|   +---w ma-name     string
|   +---w mep-id      uint16
|   +---w mac-address  ipi-cfm-data-types:cfm_lb_mac_addr_t
+---x cfm-l2-test-linktrace {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
|   +---w input
|   |   +---w md-name     string
|   |   +---w ma-name     string
|   |   +---w mep-id      uint16
|   |   +---w mac-address  ipi-cfm-data-types:cfm_lb_mac_addr_t
|   +--ro output
|   +--ro transaction-id  uint32
+---x cfm-l2-clear-linktrace-cache {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?

```

notifications:

```

+---n cfm-l2-mep-ccm-highest-fault-info {feature-list:HAVE_CFM}?
|   +--ro severity?          cml-data-types:cml_notif_severity_t
|   +--ro eventClass?        cml-data-types:cml_notif_class_t
|   +--ro mep-id?            uint16
|   +--ro ma-name?           string
|   +--ro md-name?           string
|   +--ro highest-priority-defect-found?  ipi-cfm-data-types:cfm_mep_highest_fault_defect_t
+---n cfm-l2-ethernet-loopback-test-completed {feature-list:HAVE_CFM}?
|   +--ro severity?          cml-data-types:cml_notif_severity_t
|   +--ro eventClass?        cml-data-types:cml_notif_class_t

```

```

| +--ro mep-id?          uint16
| +--ro ma-name?         string
| +--ro md-name?         string
| +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
+---n cfm-l2-ethernet-linktrace-test-completed {feature-list:HAVE_CFM}?
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro transaction-id?   uint32
| +--ro mep-id?          uint16
| +--ro ma-name?         string
| +--ro md-name?         string
| +--ro target-mac-address? ipi-cfm-data-types:cfm_rmep_mac_addr_t
+---n cfm-mep-evpn-ccm-defect-condition
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro remote-mep-id?    uint32
| +--ro mep-id?          uint16
| +--ro ma-name?         string
| +--ro md-name?         string
| +--ro last-good-sequence-number? uint32
| +--ro last-flapped-time? yang:date-and-time
| +--ro flow-state?       ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
| +--ro last-good-flow-id? uint32
+---n cfm-mep-evpn-ccm-defect-cleared
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro remote-mep-id?    uint32
| +--ro mep-id?          uint16
| +--ro ma-name?         string
| +--ro md-name?         string
| +--ro first-good-sequence-number? uint32
| +--ro last-recovered-time? yang:date-and-time
| +--ro flow-state?       ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
| +--ro last-recovered-flow-id? uint32
+---n cfm-eth-csf-los-set {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
| +--ro severity?        cml-data-types:cml_notif_severity_t

```

```

| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro mep-id?       uint16
| +--ro ma-name?      string
| +--ro md-name?      string
| +--ro signal-state? ipi-cfm-data-types:cfm_bn_csf_signal_state_t
+---n cfm-eth-csf-los-reset {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro mep-id?       uint16
| +--ro ma-name?      string
| +--ro md-name?      string
| +--ro signal-state? ipi-cfm-data-types:cfm_bn_csf_signal_state_t
+---n cfm-eth-bnm-bw-update {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro mep-id?        uint16
  +--ro ma-name?       string
  +--ro md-name?       string
  +--ro nominal-bandwidth? string
  +--ro current-bandwidth? string

```

ipi-cross-connect

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw cross-connect
  +--rw config
    | +--rw xc-name?      -> /ipi-network-instance:network-instances/network-instance/instance-name
    | +--rw description?  cml-data-types:cml_line_t
    | +--rw admin-disable? empty
    +--ro state
      | +--ro xc-name?      -> /ipi-network-instance:network-instances/network-instance/instance-name
      | +--ro description?  cml-data-types:cml_line_t
      | +--ro admin-disable? empty
      | +--ro operational-state? ipi-cross-connect-types:xc_oper_status_t

```

```

+--rw cross-connect-interfaces
  +--rw cross-connect-interface* [endpoint-if] {feature-list:NOT_HAVE_CUSTOM1_SUBINTERFACE}?
    +--rw endpoint-if -> ../config/endpoint-if
    +--rw config
      | +--rw endpoint-if? -> /ipi-interface:interfaces/interface/name
      | +--rw endpoint-if-bkp? string {feature-list:HAVE_DUNE}?
      | +--rw evc-name?      string {feature-list:HAVE_DUNE}?
    +--ro state
      +--ro endpoint-if? -> /ipi-interface:interfaces/interface/name
      +--ro endpoint-if-bkp? string {feature-list:HAVE_DUNE}?
      +--ro evc-name?      string {feature-list:HAVE_DUNE}?

```

ipi-crypto

```

+--rw crypto
  +--rw global
    +--rw config
      | +--rw key-encryption? ipi-crypto-types:crypto_cipher_types_t
    +--ro state
      +--ro key-encryption? ipi-crypto-types:crypto_cipher_types_t

```

rpcs:

```

+---x crypto-rsa-key-gen {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w ipv4-addr  inet:ipv4-address
+---x crypto-rsa-load-cert {feature-list:HAVE_HOSTPD}?
  +---w input
    +---w source-interface string
    +---w url              inet:uri

```

ipi-delay-profile

```

+--rw delay-profiles

```

```

+--rw delay-profile* [profile-type]
| +--rw profile-type          -> ../config/profile-type
| +--rw config
| | +--rw profile-type?  ipi-delay-profile-types:delay_profile_type_t
| +--ro state
| | +--ro profile-type?  ipi-delay-profile-types:delay_profile_type_t
| +--rw profile-parameters
| | +--rw config
| | | +--rw mode?          ipi-delay-profile-types:delay_profile_measurement_mode_t
| | | +--rw sender-port?   uint16
| | | +--rw burst-interval? uint16
| | | +--rw burst-count?   uint8
| | | +--rw interval?      uint16
| | +--ro state
| | | +--ro mode?          ipi-delay-profile-types:delay_profile_measurement_mode_t
| | | +--ro sender-port?   uint16
| | | +--ro burst-interval? uint16
| | | +--ro burst-count?   uint8
| | | +--ro interval?      uint16
| +--rw periodic-advertisement
| | +--rw config
| | | +--rw disable?       empty
| | | +--rw threshold?     uint8
| | | +--rw minimum-change? uint16
| | +--ro state
| | | +--ro disable?       empty
| | | +--ro threshold?     uint8
| | | +--ro minimum-change? uint16
| +--rw accelerated-advertisement
| | +--rw config!
| | | +--rw enable         empty
| | | +--rw threshold?     uint8
| | | +--rw minimum-change? uint16
| | +--ro state
| | | +--ro enable         empty
| | | +--ro threshold?     uint8

```

```
| | +--ro minimum-change? uint16
| +--rw notifications {feature-list:HAVE_TE}?
|   +--rw config!
|     | +--rw enabled      empty
|     | +--rw threshold?   uint8
|     | +--rw minimum-change? uint16
|     +--ro state
|       +--ro enabled      empty
|       +--ro threshold?   uint8
|       +--ro minimum-change? uint16
+--rw delay-profile-clients
  +--rw config!
  | +--rw delay-profile-enable empty
  | +--rw burst-interval?    uint16
  | +--rw burst-count?      uint8
  +--ro state
    +--ro delay-profile-enable empty
    +--ro burst-interval?    uint16
    +--ro burst-count?      uint8
```

ipi-dhcp

```
+--rw dhcp
  +--rw global
  | +--rw config
  | | +--rw disable-dhcp-feature? empty
  | +--ro state
  | +--ro disable-dhcp-feature? empty
```

```

+--rw option82-templates
| +--rw option82-template* [template-name]
|   +--rw template-name   -> ../config/template-name
|   +--rw config
|     | +--rw template-name?  string
|     | +--rw policy-action?  ipi-dhcp-types:dhcp_option82_template_policy_t
|     | +--rw circuit-id?     ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|     | +--rw remote-id?      ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
|     +--ro state
|       +--ro template-name?  string
|       +--ro policy-action?  ipi-dhcp-types:dhcp_option82_template_policy_t
|       +--ro circuit-id?     ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|       +--ro remote-id?      ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
+--rw relay
| +--rw global
| | +--rw config
| | | +--rw disable-dhcpv4-relay?  empty
| | | +--rw disable-dhcpv6-relay?  empty
| | +--ro state
| |   +--ro disable-dhcpv4-relay?  empty
| |   +--ro disable-dhcpv6-relay?  empty
| +--rw interfaces
| | +--rw interface* [name]
| |   +--rw name      -> ../config/name
| |   +--rw config
| |     | +--rw name?              -> /ipi-interface:interfaces/interface/name
| |     | +--rw ipv4-relay-interface?  empty
| |     | +--rw gi-addr?             inet:ipv4-address
| |     | +--rw src-ip-addr?         empty
| |     | +--rw ipv4-uplink-interface? empty
| |     | +--rw ipv4-group-name?     string
| |     | +--rw ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| |     | +--rw ipv6-gi-addr?        inet:ipv6-address
| |     | +--rw ipv6-src-addr?       empty
| |     | +--rw ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
| |     | +--rw ipv6-group-name?     string

```

```

| | +--ro state
| |   +--ro name?          -> /ipi-interface:interfaces/interface/name
| |   +--ro ipv4-relay-interface?  empty
| |   +--ro gi-addr?         inet:ipv4-address
| |   +--ro src-ip-addr?      empty
| |   +--ro ipv4-uplink-interface? empty
| |   +--ro ipv4-group-name?    string
| |   +--ro ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| |   +--ro ipv6-gi-addr?      inet:ipv6-address
| |   +--ro ipv6-src-addr?     empty
| |   +--ro ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
| |   +--ro ipv6-group-name?    string
| +--rw vrfs
|   +--rw vrf* [vrf-name]
|     +--rw vrf-name          -> ../config/vrf-name
|     +--rw config
|       +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
|         +--rw link-selection-source-ip?    inet:ipv4-address
|         +--rw enable-option82?            empty
|         +--rw enable-option82-always-on?   empty
|         +--rw enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?
|         +--rw enable-dhcpv6-duplicate-clients? empty {feature-list:HAVE_IPV6}?
|         +--rw remote-id?                  ipi-dhcp-relay-types:dhcp_remote_id_t
|         +--rw ipv4-subscriber-id?         string
|         +--rw subscriber-id?              string
|         +--rw option82-template-name?     -> /dhcp/option82-templates/option82-template/config/template-name
|         +--ro state
|         +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
|           +--ro link-selection-source-ip?    inet:ipv4-address
|           +--ro enable-option82?            empty
|           +--ro enable-option82-always-on?   empty
|           +--ro enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?
|           +--ro enable-dhcpv6-duplicate-clients? empty {feature-list:HAVE_IPV6}?
|           +--ro remote-id?                  ipi-dhcp-relay-types:dhcp_remote_id_t
|           +--ro ipv4-subscriber-id?         string

```

```

|   | +--ro subscriber-id?          string
|   | +--ro option82-template-name?  -> /dhcp/option82-templates/option82-template/config/template-name
|   | +--ro bogus-giaddr-drops?      uint32
|   | +--ro client-packets-relayed?   uint32
|   | +--ro server-packet-errors?     uint32
|   | +--ro server-packets-relayed?   uint32
|   | +--ro client-packet-errors?     uint32
|   | +--ro agent-option-errors?      uint32
|   | +--ro corrupt-agent-options?    uint32
|   | +--ro missing-agent-option?     uint32
|   | +--ro bad-circuit-id?           uint32
|   | +--ro missing-circuit-id?       uint32
|   | +--ro circuit-id?               string
|   +--rw ipv4-vpn-links
|   | +--rw ipv4-vpn-link* [interface-type]
|   |   +--rw interface-type  -> ../config/interface-type
|   |   +--rw config
|   |     | +--rw interface-type?    ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |     | +--rw interface-direction ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   |     +--ro state
|   |       +--ro interface-type?    ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |       +--ro interface-direction ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   +--rw ipv6-vpn-links
|   | +--rw ipv6-vpn-link* [interface-type-v6] {feature-list:HAVE_IPV6}?
|   |   +--rw interface-type-v6  -> ../config/interface-type-v6
|   |   +--rw config
|   |     | +--rw interface-type-v6?    ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |     | +--rw interface-direction-v6 ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   |     +--ro state
|   |       +--ro interface-type-v6?    ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|   |       +--ro interface-direction-v6 ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|   +--ro dhcpv6-delegated-prefixes* [interface-name] {feature-list:HAVE_IPV6}?
|   | +--ro interface-name  -> ../state/interface-name
|   | +--ro state
|   |   +--ro interface-name?  string
|   |   +--ro next-hop?        inet:ipv6-address

```

```

|   |   +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
|   |   +--ro preferred-lifetime?  uint32
|   |   +--ro maximum-lifetime?   uint32
|   |   +--ro prefix-start-time?  yang:date-and-time
|   |   +--ro prefix-expiry-time? yang:date-and-time
|   |   +--ro state?             ipi-dhcp-relay-types:dhcp6_pd_route_state_t
|   +--rw ipv4-dhcp-servers
|   |   +--rw ipv4-dhcp-server* [ip-address]
|   |   +--rw ip-address  -> ../config/ip-address
|   |   +--rw config
|   |   |   +--rw ip-address?      inet:ipv4-address
|   |   |   +--rw dhcpv4-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|   |   |   +--ro state
|   |   |   +--ro ip-address?      inet:ipv4-address
|   |   |   +--ro dhcpv4-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|   |   +--rw ipv6-dhcp-servers {feature-list:HAVE_IPV6}?
|   |   |   +--rw ipv6-dhcp-server* [ipv6-address]
|   |   |   +--rw ipv6-address  -> ../config/ipv6-address
|   |   |   +--rw config
|   |   |   |   +--rw ipv6-address?      inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |   |   +--rw dhcpv6-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|   |   |   +--ro state
|   |   |   +--ro ipv6-address?      inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |   +--ro dhcpv6-server-global-vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|   |   +--rw dhcp-groups
|   |   |   +--rw dhcp-group* [group-name]
|   |   |   +--rw group-name  -> ../config/group-name
|   |   |   +--rw config
|   |   |   |   +--rw group-name?  string
|   |   |   |   +--rw server*      inet:ipv4-address
|   |   |   +--ro state
|   |   |   |   +--ro group-name?  string
|   |   |   |   +--ro server*      inet:ipv4-address
|   +--rw dhcpv6-groups {feature-list:HAVE_IPV6}?

```



```

|   +--rw dhcpv6-group* [group6-name]
|   +--rw group6-name  -> ../config/group6-name
|   +--rw config
|   |   +--rw group6-name?  string
|   |   +--rw server*      inet:ipv6-address
|   +--ro state
|   +--ro group6-name?  string
|   +--ro server*      inet:ipv6-address
+--rw client
| +--rw interfaces
| +--rw interface* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|   |   +--rw name?              -> /ipi-interface:interfaces/interface/name
|   |   +--rw request-ipv4-dns?   empty
|   |   +--rw request-log-server? empty {feature-list:HAVE_SYSLOG}?
|   |   +--rw request-host-name?  empty
|   |   +--rw request-ntp-server?  empty {feature-list:HAVE_HOSTP_NTP}?
|   |   +--rw request-ipv6-dns?   empty {feature-list:HAVE_IPV6}?
|   |   +--rw request-ipv6-domain-list? empty {feature-list:HAVE_IPV6}?
|   |   +--rw request-ipv6-ntp-server? empty {feature-list:HAVE_IPV6}?
|   |   +--rw request-ipv6-rapid-commit? empty {feature-list:HAVE_IPV6}?
|   |   +--rw request-ipv6-vendor-opts? empty {feature-list:HAVE_IPV6}?
|   |   +--rw ipv6-information-request? empty {feature-list:HAVE_IPV6}?
|   |   +--rw ipv6-dad-wait-time?  uint16 {feature-list:HAVE_IPV6}?
|   |   +--rw ipv6-client-duid-type? cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
|   |   +--rw ipv6-max-delegated-prefix? uint16 {feature-list:HAVE_IPV6}?
|   |   +--rw request-ipv6-prefix?  string {feature-list:HAVE_IPV6}?
|   +--ro state
|   |   +--ro name?              -> /ipi-interface:interfaces/interface/name
|   |   +--ro request-ipv4-dns?   empty
|   |   +--ro request-log-server? empty {feature-list:HAVE_SYSLOG}?
|   |   +--ro request-host-name?  empty
|   |   +--ro request-ntp-server?  empty {feature-list:HAVE_HOSTP_NTP}?
|   |   +--ro request-ipv6-dns?   empty {feature-list:HAVE_IPV6}?
|   |   +--ro request-ipv6-domain-list? empty {feature-list:HAVE_IPV6}?

```

```

| | +--ro request-ipv6-ntp-server?  empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-rapid-commit? empty {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-vendor-opts? empty {feature-list:HAVE_IPV6}?
| | +--ro ipv6-information-request? empty {feature-list:HAVE_IPV6}?
| | +--ro ipv6-dad-wait-time?      uint16 {feature-list:HAVE_IPV6}?
| | +--ro ipv6-client-duid-type?   cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
| | +--ro ipv6-max-delegated-prefix? uint16 {feature-list:HAVE_IPV6}?
| | +--ro request-ipv6-prefix?     string {feature-list:HAVE_IPV6}?
| +--rw prefix-ipv6-addresses {feature-list:HAVE_IPV6}?
| | +--rw prefix-ipv6-address* [prefix-name suffix-ipv6-addr]
| | | +--rw prefix-name      -> ../config/prefix-name
| | | +--rw suffix-ipv6-addr -> ../config/suffix-ipv6-addr
| | | +--rw config
| | | | +--rw prefix-name?    string
| | | | +--rw suffix-ipv6-addr? string
| | | +--ro state
| | | | +--ro prefix-name?    string
| | | | +--ro suffix-ipv6-addr? string
| +--ro learned-prefixes* [learnt-prefix] {feature-list:HAVE_IPV6}?
| | +--ro learnt-prefix  cml-data-types:cml_ipv6_prefix_t
| | +--ro state
| | | +--ro learnt-prefix?   cml-data-types:cml_ipv6_prefix_t
| | | +--ro max-lifetime?    uint32
| | | +--ro preferred-lifetime? uint32
+--rw server
| +--rw interfaces
| | +--rw interface* [name]
| | | +--rw name      -> ../config/name
| | | +--rw config
| | | | +--rw name?          -> /ipi-interface:interfaces/interface/name
| | | | +--rw enable-ipv4-server? empty
| | | | +--rw enable-ipv6-server? empty {feature-list:HAVE_IPV6}?
| | | +--ro state
| | | | +--ro name?          -> /ipi-interface:interfaces/interface/name
| | | | +--ro enable-ipv4-server? empty
| | | | +--ro enable-ipv6-server? empty {feature-list:HAVE_IPV6}?

```

```

| +--rw vrfs
|   +--rw vrf* [vrf-name]
|     +--rw vrf-name    -> ../config/vrf-name
|     +--rw config
name |   | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
|     | +--rw rapid-commit?    empty
|     | +--rw preference?      empty
|     | +--rw max-lease-time?   int32
|     | +--rw default-lease-time? int32
|     +--ro state
|     | +--ro vrf-name?        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|     | +--ro rapid-commit?    empty
|     | +--ro preference?      empty
|     | +--ro max-lease-time?   int32
|     | +--ro default-lease-time? int32
|     +--rw dhcp-pools
|       +--rw dhcp-pool* [pool-name]
|         +--rw pool-name    -> ../config/pool-name
|         +--rw config
|           +--rw pool-name?      string
|           +--rw host-name?      string
|           +--rw routers?        inet:ipv4-address
|           +--rw ntp-server*      inet:ipv4-address
|           +--rw boot-file?       string
|           +--rw tftp-server?     inet:ipv4-address
|           +--rw log-server*      inet:ipv4-address
|           +--rw dns-server*      inet:ipv4-address
|           +--rw network?         inet:ipv4-address
|           +--rw netmask?         inet:ipv4-address
|           +--rw low-address-in-range? inet:ipv4-address
|           +--rw high-address-in-range? inet:ipv4-address
|           +--ro state
|             +--ro pool-name?      string
|             +--ro host-name?      string
|             +--ro routers?        inet:ipv4-address
|             +--ro ntp-server*      inet:ipv4-address

```

```

|   |   +--ro boot-file?          string
|   |   +--ro tftp-server?        inet:ipv4-address
|   |   +--ro log-server*         inet:ipv4-address
|   |   +--ro dns-server*         inet:ipv4-address
|   |   +--ro network?            inet:ipv4-address
|   |   +--ro netmask?            inet:ipv4-address
|   |   +--ro low-address-in-range? inet:ipv4-address
|   |   +--ro high-address-in-range? inet:ipv4-address
|   +--rw dhcp6-pools {feature-list:HAVE_IPV6}?
|       +--rw dhcp6-pool* [pool6-name]
|           +--rw pool6-name  -> ../config/pool6-name
|           +--rw config
|               | +--rw pool6-name?          string
|               | +--rw domain-name?         string
|               | +--rw vendor-options?      cml-data-types:cml_line_t
|               | +--rw ntp-server*          inet:ipv6-address
|               | +--rw dns-server*          inet:ipv6-address
|               | +--rw ipv6-network?        inet:ipv6-address
|               | +--rw ipv6-netmask?        uint8
|               | +--rw low-address-in-range? inet:ipv6-address
|               | +--rw high-address-in-range? inet:ipv6-address
|               | +--rw temporary-address?   inet:ipv6-address
|               | +--rw ipv6-prefix-high-address? inet:ipv6-address
|               | +--rw ipv6-prefix-low-address? inet:ipv6-address
|               | +--rw ipv6-prefix-netmask? uint8
|           +--ro state
|               +--ro pool6-name?          string
|               +--ro domain-name?         string
|               +--ro vendor-options?      cml-data-types:cml_line_t
|               +--ro ntp-server*          inet:ipv6-address
|               +--ro dns-server*          inet:ipv6-address
|               +--ro ipv6-network?        inet:ipv6-address
|               +--ro ipv6-netmask?        uint8
|               +--ro low-address-in-range? inet:ipv6-address
|               +--ro high-address-in-range? inet:ipv6-address
|               +--ro temporary-address?   inet:ipv6-address

```

```

|         +--ro ipv6-prefix-high-address?  inet:ipv6-address
|         +--ro ipv6-prefix-low-address?   inet:ipv6-address
|         +--ro ipv6-prefix-netmask?      uint8
+--rw snooping
  +--rw debug
    | +--rw config
    | | +--rw options?  ipi-dhcp-snooping-types:dhcp_snooping_debug_t
    | +--ro state
    | | +--ro options?          ipi-dhcp-snooping-types:dhcp_snooping_debug_t
    | | +--ro terminal-debug-status?  ipi-dhcp-snooping-types:dhcp_snooping_debug_t
  +--rw snooping-bridges
    | +--rw snooping-bridge* [bridge-id]
    | | +--rw bridge-id          -> ../config/bridge-id
    | | +--rw config!
    | | | +--rw snooping-enable    empty
    | | | +--rw bridge-id?        -> /ipi-network-instance:network-instances/network-instance/instance-name
    | | | +--rw verify-mac-address? empty
    | | | +--rw option-82-enable?  empty
    | | | +--rw write-delay?      uint32
    | | | +--rw strict-validation? empty
    | | +--ro state
    | | | +--ro snooping-enable    empty
    | | | +--ro bridge-id?        -> /ipi-network-instance:network-instances/network-instance/instance-name
    | | | +--ro verify-mac-address? empty
    | | | +--ro option-82-enable?  empty
    | | | +--ro write-delay?      uint32
    | | | +--ro strict-validation? empty
    | +--rw arp-inspection
    | | +--rw config!
    | | | +--rw enable            empty
    | | | +--rw validate-mac?     ipi-dhcp-snooping-types:dhcp_snooping_validation_t
    | | | +--rw vlan-range?      cml-data-types:cml_range_t
    | | +--ro state
    | | | +--ro enable            empty
    | | | +--ro validate-mac?     ipi-dhcp-snooping-types:dhcp_snooping_validation_t
    | | | +--ro vlan-range?      cml-data-types:cml_range_t

```

```

| | +--ro counters
| |   +--ro forwarded? yang:counter32
| |   +--ro dropped?   yang:counter32
| +--rw vlan-option82-template-mappings
| | +--rw vlan-option82-template-mapping* [vlan-range]
| |   +--rw vlan-range -> ../config/vlan-range
| |   +--rw config!
| |     | +--rw option82-template-name? string
| |     | | +--rw vlan-range?          cml-data-types:cml_range_t
| |     | +--ro state
| |     |   +--ro option82-template-name? string
| |     |   +--ro vlan-range?          cml-data-types:cml_range_t
| +--rw vlans
|   +--rw vlan* [vlan-id]
|     +--rw vlan-id          -> ../config/vlan-id
|     +--rw config
|       | +--rw vlan-id? uint16
|       +--ro state
|         | +--ro vlan-id?  uint16
|         | +--ro statistics
|         |   +--ro static-entries-ipv4? yang:counter32
|         |   +--ro dynamic-entries-ipv4? yang:counter32
|         |   +--ro static-entries-ipv6? yang:counter32 {feature-list:HAVE_IPV6}?
|         |   +--ro dynamic-entries-ipv6? yang:counter32 {feature-list:HAVE_IPV6}?
|         +--rw mac-addresses-ipv4
|           | +--rw mac-address-ipv4* [mac-address]
|           |   +--rw mac-address -> ../config/mac-address
|           |   +--rw config
|           |     | +--rw mac-address? cml-data-types:cml_mac_addr_t
|           |     | +--rw ipv4-address inet:ipv4-address
|           |     | +--rw if-name      -> /ipi-interface:interfaces/interface/name
|           |     +--ro state
|           |       +--ro mac-address? cml-data-types:cml_mac_addr_t
|           |       +--ro ipv4-address inet:ipv4-address
|           |       +--ro if-name      -> /ipi-interface:interfaces/interface/name
|         +--rw mac-addresses-ipv6 {feature-list:HAVE_IPV6}?

```

```

|   | +--rw mac-address-ipv6* [mac-address]
|   |   +--rw mac-address  -> ../config/mac-address
|   |   +--rw config
|   |     | +--rw mac-address?  cml-data-types:cml_mac_addr_t
|   |     | +--rw ipv6-address  inet:ipv6-address
|   |     | +--rw if-name      -> /ipi-interface:interfaces/interface/name
|   |     +--ro state
|   |       +--ro mac-address?  cml-data-types:cml_mac_addr_t
|   |       +--ro ipv6-address  inet:ipv6-address
|   |       +--ro if-name      -> /ipi-interface:interfaces/interface/name
|   +--ro snooping-binding-info
|     +--ro ipv4* [mac-address ip-address]
|       | +--ro mac-address  -> ../state/mac-address
|       | +--ro ip-address   -> ../state/ip-address
|       +--ro state
|         +--ro mac-address?  cml-data-types:cml_mac_addr_t
|         +--ro lease-time?   uint32
|         +--ro type?         ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|         +--ro if-name?     string
|         +--ro ip-address?   inet:ipv4-address
|     +--ro ipv6* [mac-address ip-address] {feature-list:HAVE_IPV6}?
|       +--ro mac-address  -> ../state/mac-address
|       +--ro ip-address   -> ../state/ip-address
|       +--ro state
|         +--ro mac-address?  cml-data-types:cml_mac_addr_t
|         +--ro lease-time?   uint32
|         +--ro type?         ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|         +--ro if-name?     string
|         +--ro ip-address?   inet:ipv6-address
+--rw interfaces
+--rw interface* [name]
  +--rw name          -> ../config/name
  +--rw config
  | +--rw name?  -> /ipi-interface:interfaces/interface/name
  +--ro state
  | +--ro name?  -> /ipi-interface:interfaces/interface/name

```

```

+--rw trust
| +--rw config
| | +--rw snooping-trust? empty
| +--ro state
|   +--ro snooping-trust? empty
+--rw verify
| +--rw config!
| | +--rw verify-snooping-vlan empty
| | +--rw verify-access-group-mode? empty
| +--ro state
|   +--ro verify-snooping-vlan empty
|   +--ro verify-access-group-mode? empty
+--ro snooping-binding-info
| +--ro ipv4-entries
| | +--ro ipv4-entry* [ip-address]
| |   +--ro ip-address -> ../state/ip-address
| |   +--ro state
| |     +--ro interface? string
| |     +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
| |     +--ro vlan-id? uint16
| |     +--ro mac-address? cml-data-types:cml_mac_addr_t
| |     +--ro ip-address? inet:ipv4-address
| +--ro ipv6-entries {feature-list:HAVE_IPV6}?
|   +--ro ipv6-entry* [ip-address]
|     +--ro ip-address -> ../state/ip-address
|     +--ro state
|       +--ro interface? string
|       +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|       +--ro vlan-id? uint16
|       +--ro mac-address? cml-data-types:cml_mac_addr_t
|       +--ro ip-address? inet:ipv6-address
+--ro source-binding-info
  +--ro ipv4-entries
  | +--ro ipv4-entry* [ip-address]
  |   +--ro ip-address -> ../state/ip-address
  |   +--ro state

```



```

|   +--ro interface?   string
|   +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|   +--ro vlan-id?     uint16
|   +--ro mac-address? cml-data-types:cml_mac_addr_t
|   +--ro ip-address?  inet:ipv4-address
+--ro ipv6-entries {feature-list:HAVE_IPV6}?
  +--ro ipv6-entry* [ip-address]
    +--ro ip-address  -> ../state/ip-address
    +--ro state
      +--ro interface?   string
      +--ro filter-type? ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
      +--ro vlan-id?     uint16
      +--ro mac-address? cml-data-types:cml_mac_addr_t
      +--ro ip-address?  inet:ipv6-address

```

rpcs:

```

+---x clear-relay-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
+---x clear-relay-option-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
+---x clear-dhcpv6-pd-route {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w vrf-name   string
+---x dhcp-snooping-write-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w bridge-id  string
+---x dhcp-snooping-renew-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w bridge-id  string
+---x dhcp-snooping-write-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input
|   +---w bridge-id  string
+---x dhcp-snooping-renew-source-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
| +---w input

```

```

|   +---w bridge-id   string
+---x dhcp-snooping-clear-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
|   +---w input
|   +---w bridge-id   string
+---x dhcp-snooping-clear-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
|   +---w input
|   +---w bridge-id   string
+---x dhcp-snooping-terminal-debug-on {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
|   +---w input
|   +---w terminal-debug-options   ipi-dhcp-snooping-types:dhcp_snooping_debug_t
+---x dhcp-snooping-terminal-debug-off {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
+---w input
+---w terminal-debug-options   ipi-dhcp-snooping-types:dhcp_snooping_debug_t

```

notifications:

```

+---n dhcpv6-relay-pd-route
+--ro severity?      cml-data-types:cml_notif_severity_t
+--ro eventClass?    cml-data-types:cml_notif_class_t
+--ro vrf-name?      string
+--ro interface-name? string
+--ro state?         ipi-dhcp-relay-types:dhcp6_pd_route_state_t
+--ro prefix?        cml-data-types:cml_ipv6_prefix_t
+--ro next-hop?      inet:ipv6-address

```

ipi-dns-client

```

+--rw dns
+--rw vrfs
|   +--rw vrf* [vrf-name]
|   |   +--rw vrf-name   -> ../config/vrf-name
|   |   +--rw config
|   |   |   +--rw vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|   |   {feature-list:HAVE_VRF}?

```

```

| | +--rw lookup-enabled?    empty
| | +--rw default-domain-name? inet:domain-name
|   +--ro state
| | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
| | +--ro lookup-enabled?    empty
| | +--ro default-domain-name? inet:domain-name
|   +--rw servers
| | +--rw server* [address]
| |   +--rw address -> ../config/address
| |   +--rw config
| |     | +--rw address? inet:ip-address
| |     +--ro state
| |       +--ro address? inet:ip-address
|   +--rw search-domains
| | +--rw search-domain* [domain-name]
| |   +--rw domain-name -> ../config/domain-name
| |   +--rw config
| |     | +--rw domain-name? inet:domain-name
| |     +--ro state
| |       +--ro domain-name? inet:domain-name
|   +--rw host-entries
|     +--rw host-entry* [hostname]
|       +--rw hostname -> ../config/hostname
|       +--rw config
|         | +--rw hostname?    cml-data-types:cml_host_string_t
|         | +--rw ipv4-address? inet:ipv4-address
|         | +--rw ipv6-address? inet:ipv6-address {feature-list:HAVE_IPV6}?
|         +--ro state
|           +--ro hostname?    cml-data-types:cml_host_string_t
|           +--ro ipv4-address? inet:ipv4-address
|           +--ro ipv6-address? inet:ipv6-address {feature-list:HAVE_IPV6}?
+--rw debug
| +--rw config
| | +--rw enable? empty
|   +--ro state
|     +--ro enable?          empty

```

```

|   +--ro terminal-debug-status?  cml-data-types:cml_on_off_t
+--rw default-instance
|   +--rw config
|   |   +--rw disable-default-instance?  empty
|   +--ro state
|       +--ro disable-default-instance?  empty

```

rpcs:

```

+---x dns-client-terminal-debug-on {feature-list:HAVE_DNS_CLIENT}?
+---x dns-client-terminal-debug-off {feature-list:HAVE_DNS_CLIENT}?

```

ipi-dns-relay

```

+--rw dns-relay
|   +--rw config
|   |   +--rw enable-dns-feature?        boolean
|   |   +--rw enable-dnsv4-relay?        boolean
|   |   +--rw enable-dnsv6-relay?        boolean {feature-list:HAVE_IPV6}?
|   |   +--rw disable-dnssec-validation?  empty
|   |   +--rw dns-server-v4-addr*         inet:ipv4-address
|   |   +--rw dns-server-v6-addr*         inet:ipv6-address {feature-list:HAVE_IPV6}?
|   +--ro state
|       +--ro enable-dns-feature?        boolean
|       +--ro enable-dnsv4-relay?        boolean
|       +--ro enable-dnsv6-relay?        boolean {feature-list:HAVE_IPV6}?
|       +--ro disable-dnssec-validation?  empty
|       +--ro dns-server-v4-addr*         inet:ipv4-address
|       +--ro dns-server-v6-addr*         inet:ipv6-address {feature-list:HAVE_IPV6}?
+--rw interfaces
|   +--rw interface* [name]
|   |   +--rw name      -> ../config/name
|   |   +--rw config
|   |   |   +--rw name?          -> /ipi-interface:interfaces/interface/name
|   |   |   +--rw enable-dnsv4-relay?  empty
|   |   |   +--rw enable-dnsv6-relay?  empty {feature-list:HAVE_IPV6}?
|   |   |   +--rw dns-relay-uplink?    empty

```

```

| | +--rw dns-relay-v6-uplink? empty {feature-list:HAVE_IPV6}?
| +--ro state
|   +--ro name?          -> /ipi-interface:interfaces/interface/name
|   +--ro enable-dnsv4-relay? empty
|   +--ro enable-dnsv6-relay? empty {feature-list:HAVE_IPV6}?
|   +--ro dns-relay-uplink? empty
|   +--ro dns-relay-v6-uplink? empty {feature-list:HAVE_IPV6}?
+--rw vrfs {feature-list:HAVE_VRF}?
  +--rw vrf* [vrf-name]
    +--rw vrf-name -> ../config/vrf-name
    +--rw config
      | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
      | +--rw disable-dnssec-validation? empty
      | +--rw dns-server-v4-addr*   inet:ipv4-address
      | +--rw dns-server-v6-addr*   inet:ipv6-address {feature-list:HAVE_IPV6}?
      +--ro state
        +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
        +--ro disable-dnssec-validation? empty
        +--ro dns-server-v4-addr*   inet:ipv4-address
        +--ro dns-server-v6-addr*   inet:ipv6-address {feature-list:HAVE_IPV6}?

```

ipi-docker

```

+--rw docker
  +--rw config
    | +--rw enable? empty
    +--ro state
      +--ro enable? empty

```

ipi-edpl

```

+--rw edpl
  +--rw profiles

```

```

| +--rw profile* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|     | +--rw name?          string
|     | +--rw direction?     ipi-edpl-types:edpl_direction_t
|     | +--rw dst-mac?       cml-data-types:cml_mac_addr_t
|     | +--rw vlan-id?       uint16
|     | +--rw ip-swap?       empty
|     | +--rw udp-tcp-port-swap? empty
|     | +--rw source-udp-port? uint16
|     | +--rw destination-udp-port? uint16
|     | +--rw ethertype?     string
|     | +--rw address-family? ipi-edpl-types:edpl_addr_family_t
|     | +--rw src-ip?        inet:ip-address
|     | +--rw dst-ip?        inet:ip-address
|   +--ro state
|     +--ro name?          string
|     +--ro direction?     ipi-edpl-types:edpl_direction_t
|     +--ro dst-mac?       cml-data-types:cml_mac_addr_t
|     +--ro vlan-id?       uint16
|     +--ro ip-swap?       empty
|     +--ro udp-tcp-port-swap? empty
|     +--ro source-udp-port? uint16
|     +--ro destination-udp-port? uint16
|     +--ro ethertype?     string
|     +--ro address-family? ipi-edpl-types:edpl_addr_family_t
|     +--ro src-ip?        inet:ip-address
|     +--ro dst-ip?        inet:ip-address
+--rw tests
  +--rw test* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw profile?   -> /edpl/profiles/profile/config/name
      | +--rw source-port? -> /ipi-interface:interfaces/interface/name
      | +--rw l2-port?   -> /ipi-interface:interfaces/interface/name

```

```

+--ro state
| +--ro name?      string
| +--ro profile?   -> /edpl/profiles/profile/config/name
| +--ro source-port? -> /ipi-interface:interfaces/interface/name
| +--ro l2-port?   -> /ipi-interface:interfaces/interface/name
+--rw timer
| +--rw config!
| | +--rw duration  empty
| | +--rw hours?    uint8
| | +--rw minutes?  uint8
| | +--rw seconds?  uint8
| +--ro state
|   +--ro duration  empty
|   +--ro hours?    uint8
|   +--ro minutes?  uint8
|   +--ro seconds?  uint8
+--rw execution
  +--ro state
    +--ro test-direction?      ipi-edpl-types:edpl_direction_t
    +--ro address-family?      ipi-edpl-types:edpl_addr_family_t
    +--ro logical-if-name?     string
    +--ro src-if-name?         string
    +--ro dst-mac?             string
    +--ro vlan?                uint16
    +--ro ethtype?             string
    +--ro src-ip?              string
    +--ro dst-ip?              string
    +--ro src-udp-port?        uint16
    +--ro dst-udp-port?        uint16
    +--ro action-ip-swap?      string
    +--ro action-udp-tcp-port-swap? string
    +--ro start-time?          string
    +--ro end-time?            string
    +--ro perpetual-time?      empty

```

rpcs:

```

+---x edpl-test-execute {feature-list:HAVE_ONMD,feature-list:HAVE_EDPL}?
  +---w input
    +---w edpl-action   ipi-edpl-types:edpl_test_action_t
    +---w test-name     string

```

ipi-elk

```

+--rw elk
  +--rw metricbeats
    | +--rw metricbeat* [ip]
    |   +--rw ip      -> ../config/ip
    |   +--rw config
    |     | +--rw ip?      inet:ipv4-address
    |     | +--rw username string
    |     | +--rw password string
    |     +--ro state
    |       +--ro ip?      inet:ipv4-address
    |       +--ro username string
    |       +--ro password string
  +--rw filebeats
    +--rw filebeat* [ip]
      +--rw ip      -> ../config/ip
      +--rw config
        | +--rw ip?      inet:ipv4-address
        | +--rw certificate-path? string
        +--ro state
          +--ro ip?      inet:ipv4-address
          +--ro certificate-path? string

```

rpcs:

```

+---x elk-metricbeat-service-enable {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w vrf-name  string
+---x elk-filebeat-service-enable {feature-list:HAVE_HOSTPD}?
| +---w input

```



```

|   +---w vrf-name   string
+---x elk-metricbeat-service-disable {feature-list:HAVE_HOSTPD}?
|   +---w input
|   +---w vrf-name   string
+---x elk-filebeat-service-disable {feature-list:HAVE_HOSTPD}?
    +---w input
        +---w vrf-name   string

```

ipi-enhanced-pbr

```

+--rw enhanced-pbr
  +--ro class-maps-default
  |   +--ro class-map-default* [name]
  |   |   +--ro name      -> ../state/name
  |   |   +--ro state
  |   |   |   +--ro name?      string
  |   |   |   +--ro type?      ipi-enhanced-pbr-types:epbr_class_map_t
  |   |   |   +--ro match-criteria? ipi-enhanced-pbr-types:epbr_match_criteria_t
  +--rw class-maps
  |   +--rw class-map* [name class-type]
  |   |   +--rw name      -> ../config/name
  |   |   +--rw class-type -> ../config/class-type
  |   |   +--rw config
  |   |   |   +--rw name?      string
  |   |   |   +--rw class-type? ipi-enhanced-pbr-types:epbr_class_map_t
  |   |   |   +--rw match-criteria ipi-enhanced-pbr-types:epbr_match_criteria_t
  |   |   |   +--rw reference-description? cml-data-types:cml_line_t
  |   |   +--ro state
  |   |   |   +--ro name?      string
  |   |   |   +--ro class-type? ipi-enhanced-pbr-types:epbr_class_map_t
  |   |   |   +--ro match-criteria ipi-enhanced-pbr-types:epbr_match_criteria_t
  |   |   |   +--ro reference-description? cml-data-types:cml_line_t
  |   +--rw match-filters
  |   |   +--rw config
  |   |   |   +--rw protocol?      cml-data-types:cml_range_t

```

```

|   | +--rw port?          cml-data-types:cml_range_t
|   | +--rw destination-port? cml-data-types:cml_range_t
|   | +--rw source-port?     cml-data-types:cml_range_t
|   | +--rw packet-length?   cml-data-types:cml_range_t
|   | +--rw fragment-type?   ipi-enhanced-pbr-types:epbr_fragment_type_t
|   +--ro state
|   | +--ro protocol?       cml-data-types:cml_range_t
|   | +--ro port?          cml-data-types:cml_range_t
|   | +--ro destination-port? cml-data-types:cml_range_t
|   | +--ro source-port?    cml-data-types:cml_range_t
|   | +--ro packet-length?   cml-data-types:cml_range_t
|   | +--ro fragment-type?   ipi-enhanced-pbr-types:epbr_fragment_type_t
|   +--rw ipv4
|   | +--rw config
|   | | +--rw destination-prefix? cml-data-types:cml_ipv4_addr_prefix_t
|   | | +--rw source-prefix?     cml-data-types:cml_ipv4_addr_prefix_t
|   | | +--ro state
|   | | | +--ro destination-prefix? cml-data-types:cml_ipv4_addr_prefix_t
|   | | | +--ro source-prefix?     cml-data-types:cml_ipv4_addr_prefix_t
|   | | +--rw icmp
|   | | | +--rw config
|   | | | | +--rw icmp-type? cml-data-types:cml_range_t
|   | | | | +--rw icmp-code? cml-data-types:cml_range_t
|   | | | +--ro state
|   | | | | +--ro icmp-type? cml-data-types:cml_range_t
|   | | | | +--ro icmp-code? cml-data-types:cml_range_t
|   | +--rw tcp-flag
|   | +--rw config
|   | | +--rw value?  string
|   | | +--rw bit-mask? string
|   | | +--ro state
|   | | | +--ro value?  string
|   | | | +--ro bit-mask? string
|   +--rw dscp
|   | +--rw config
|   | | +--rw match-dscp-value? cml-data-types:cml_range_t

```

```

|      +--ro state
|      +--ro match-dscp-value?  cml-data-types:cml_range_t
+--rw policy-maps
  +--rw policy-map* [policy-map-name type]
    +--rw policy-map-name  -> ../config/policy-map-name
    +--rw type              -> ../config/type
    +--rw config
      | +--rw policy-map-name?    string
      | +--rw type?              ipi-enhanced-pbr-types:epbr_policy_map_t
      | +--rw reference-description?  cml-data-types:cml_line_t
      +--ro state
        | +--ro policy-map-name?    string
        | +--ro type?              ipi-enhanced-pbr-types:epbr_policy_map_t
        | +--ro reference-description?  cml-data-types:cml_line_t
      +--rw classes
        +--rw class* [class-map-name class-type]
          +--rw class-map-name  -> ../config/class-map-name
          +--rw class-type      -> ../config/class-type
          +--rw config
            | +--rw class-map-name?  string
            | +--rw class-type?      ipi-enhanced-pbr-types:epbr_class_map_t
            +--ro state
              | +--ro class-map-name?  string
              | +--ro class-type?      ipi-enhanced-pbr-types:epbr_class_map_t
            +--rw policy-actions
              +--rw config
                | +--rw drop-traffic?  empty
                | +--rw dscp-set-value? ipi-enhanced-pbr-types:epbr_hex_dscp_t
                +--ro state
                  | +--ro drop-traffic?  empty
                  | +--ro dscp-set-value? ipi-enhanced-pbr-types:epbr_hex_dscp_t
                +--rw police
                  | +--rw config
                    | | +--rw rate?      uint64
                    | | +--rw rate-unit? ipi-enhanced-pbr-types:epbr_rate_unit_t
                    | +--ro state

```

```

|   +--ro rate?      uint64
|   +--ro rate-unit? ipi-enhanced-pbr-types:epbr_rate_unit_t
+--rw redirect
  +--rw ipv4
    +--rw extcommunity
      +--rw config
        | +--rw route-target? ipi-enhanced-pbr-types:epbr_vrf_rt_t
      +--ro state
        +--ro route-target? ipi-enhanced-pbr-types:epbr_vrf_rt_t

```

ipi-erpsv2

```

+--rw erpsv2 {feature-list:HAVE_G8032V2}?
  +--rw rings
    | +--rw ring* [ring-name]
    |   +--rw ring-name  -> ../config/ring-name
    |   +--rw config
    |     | +--rw ring-name?      string
    |     | +--rw east-interface? -> /ipi-interface:interfaces/interface/name
    |     | +--rw west-interface? -> /ipi-interface:interfaces/interface/name
    |     | +--rw description?    cml-data-types:cml_line_t
    |     +--ro state
    |       +--ro ring-name?      string
    |       +--ro east-interface? -> /ipi-interface:interfaces/interface/name
    |       +--ro west-interface? -> /ipi-interface:interfaces/interface/name
    |       +--ro description?    cml-data-types:cml_line_t
  +--rw profiles
    | +--rw profile* [profile-name]
    |   +--rw profile-name  -> ../config/profile-name
    |   +--rw config
    |     | +--rw profile-name?      string
    |     | +--rw wait-to-restore-timer? uint8
    |     | +--rw hold-off-timer?      uint16
    |     | +--rw guard-time?          uint16
    |     | +--rw protection-mode?     ipi-erpsv2-types:erpsv2_protection_mode_t

```

```

|   +--ro state
|   +--ro profile-name?      string
|   +--ro wait-to-restore-timer? uint8
|   +--ro hold-off-timer?    uint16
|   +--ro guard-time?        uint16
|   +--ro protection-mode?    ipi-erpsv2-types:erpsv2_protection_mode_t
|   +--ro wait-to-block-time? uint32
+--rw erp-instances
| +--rw erp-instance* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|   | +--rw name?          string
|   | +--rw ring-name?     -> /erpsv2/rings/ring/ring-name
|   | +--rw mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|   | +--rw ring-type?     ipi-erpsv2-types:erpsv2_ring_type_t
|   | +--rw enable-tcn-propagation? empty
|   | +--rw tcn-to-instances* string
|   | +--rw non-virtual-channel? empty
|   | +--rw ring-id?       uint8
|   | +--rw description?   cml-data-types:cml_line_t
|   +--ro state
|   | +--ro name?          string
|   | +--ro ring-name?     -> /erpsv2/rings/ring/ring-name
|   | +--ro mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|   | +--ro ring-type?     ipi-erpsv2-types:erpsv2_ring_type_t
|   | +--ro enable-tcn-propagation? empty
|   | +--ro tcn-to-instances* string
|   | +--ro non-virtual-channel? empty
|   | +--ro ring-id?       uint8
|   | +--ro description?   cml-data-types:cml_line_t
|   | +--ro instance-id?   uint8
|   | +--ro node-id?       string
|   | +--ro ring?          string
|   | +--ro virtual?       string
|   | +--ro attached?      string
|   | +--ro attached-to?   string

```

```

| | +--ro tcn-propagation?      string
| | +--ro erp-state?           ipi-erpsv2-types:erpsv2_erp_state_t
| | +--ro initial-timer-status? string
| | +--ro wait-to-restore-timer? string
| | +--ro wait-to-block-timer?  uint32
| | +--ro hold-off-timer?       uint16
| | +--ro guard-timer?         uint16
| | +--ro east-if-name?        string
| | +--ro east-link-status?     ipi-erpsv2-types:erpsv2_link_status_t
| | +--ro east-if-state?       ipi-erpsv2-types:erpsv2_interface_state_t
| | +--ro east-bpr?            string
| | +--ro east-node-id?        string
| | +--ro west-if-name?        string
| | +--ro west-link-status?     ipi-erpsv2-types:erpsv2_link_status_t
| | +--ro west-if-state?       ipi-erpsv2-types:erpsv2_interface_state_t
| | +--ro west-bpr?            string
| | +--ro west-node-id?        string
| | +--ro east-cfm-mep-id?      uint16
| | +--ro east-cfm-cc-interval? ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
| | +--ro east-cfm-domain?     string
| | +--ro east-cfm-ma?         string
| | +--ro west-cfm-mep-id?     uint16
| | +--ro west-cfm-cc-interval? ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
| | +--ro west-cfm-domain?     string
| | +--ro west-cfm-ma?         string
| | +--ro aps-channel-level?    uint8
| | +--ro aps-channel-vlan?     uint16
| | +--ro data-vlan?           string
| | +--ro current-state?       ipi-erpsv2-types:erpsv2_ring_state_t
| | +--ro out-aps-pkts?        yang:counter32
| | +--ro in-aps-pkts?         yang:counter32
| | +--ro previous-state?      ipi-erpsv2-types:erpsv2_ring_state_t
| +--rw associate-rings
| | +--rw associate-ring* [associate-ring-name]
| |   +--rw associate-ring-name -> ../config/associate-ring-name
| |   +--rw config

```

```

| | | +--rw associate-ring-name? string
| |   +--ro state
| |     +--ro associate-ring-name? string
| |     +--ro data-vlan?          string
|   +--rw instance-role
| | +--rw config
| | | +--rw (role-option)?
| | |   +--:(owner)
| | | | +--rw owner-port-id?      ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(neighbor)
| | | | +--rw neighbor-port-id?   ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(next-neighbor)
| | | | +--rw next-neighbor-port-id? ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(non-owner)
| | |   +--rw non-owner?          empty
| | +--ro state
| |   +--ro (role-option)?
| |   +--:(owner)
| | | +--ro owner-port-id?      ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(neighbor)
| | | | +--ro neighbor-port-id?   ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(next-neighbor)
| | | | +--ro next-neighbor-port-id? ipi-erpsv2-types:erpsv2_port_id_t
| | |   +--:(non-owner)
| | |   +--ro non-owner?          empty
|   +--rw aps-channel
| | +--rw config
| | | +--rw level? uint8
| |   +--ro state
| |   +--ro level? uint8
|   +--rw aps-channel-vlans
| | +--rw aps-channel-vlan* [vlan-id]
| |   +--rw vlan-id -> ../config/vlan-id
| |   +--rw config
| | | +--rw vlan-id? uint16
| | | +--rw inner-vlan-id? uint16

```

```

| | +--ro state
| |   +--ro vlan-id?      uint16
| |   +--ro inner-vlan-id? uint16
| +--rw data
| | +--rw config
| | | +--rw data-vlan? cml-data-types:cml_range_t
| | | +--ro state
| | |   +--ro data-vlan? cml-data-types:cml_range_t
| +--rw virtual-channel
| | +--rw config!
| | | +--rw channel-id      uint16
| | | +--rw attached-instance -> /erpsv2/erp-instances/erp-instance/name
| | | +--ro state
| | |   +--ro channel-id      uint16
| | |   +--ro attached-instance -> /erpsv2/erp-instances/erp-instance/name
| +--rw east-link
| | +--ro state
| | | +--ro link-name?      string
| | | +--ro link-state?     ipi-erpsv2-types:erpsv2_link_state_t
| | | +--ro remote-node-id? cml-data-types:cml_mac_addr_t
| | | +--ro remote-blocked-port-reference? uint8
| +--rw west-link
| | +--ro state
| | | +--ro link-name?      string
| | | +--ro link-state?     ipi-erpsv2-types:erpsv2_link_state_t
| | | +--ro remote-node-id? cml-data-types:cml_mac_addr_t
| | | +--ro remote-blocked-port-reference? uint8
| +--rw aps-statistics
| | +--ro state
| | | +--ro tx-ring-aps-messages? yang:counter32
| | | +--ro rx-ring-aps-messages? yang:counter32
+--rw debug
| +--rw config
| | +--rw options? ipi-erpsv2-types:erpsv2_debug_t
| +--ro state
| | +--ro options?      ipi-erpsv2-types:erpsv2_debug_t

```

```

|   +--ro terminal-debug-status?  ipi-erpsv2-types:erpsv2_debug_t
+--rw subinterfaces
|   +--rw subinterface* [name] {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_G8032V2}?
|   +--rw name      -> ../config/name
|   +--rw config
|   |   +--rw name?          -> /ipi-interface:interfaces/interface/name
|   |   +--rw instance-name? ipi-erpsv2-types:erpsv2_subinterface_instance_type_t
|   +--ro state
|   |   +--ro name?          -> /ipi-interface:interfaces/interface/name
|   |   +--ro instance-name? ipi-erpsv2-types:erpsv2_subinterface_instance_type_t
+--rw instances-summary
|   +--ro state
|   |   +--ro in-init-state?      uint16
|   |   +--ro in-idle-state?      uint16
|   |   +--ro in-pending-state?   uint16
|   |   +--ro in-protection-state? uint16
|   |   +--ro in-fs-state?        uint16
|   |   +--ro in-ms-state?        uint16
|   |   +--ro installed-in-hw?    uint16
|   |   +--ro ring-configured?    uint16
|   |   +--ro associated-ring-configured? uint16
|   |   +--ro instances-with-ring? uint16
|   |   +--ro instances-without-ring? uint16

```

rpcs:

```

+---x erpsv2-switch-erp-instance {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w instance-name  string
|   +---w operation      ipi-erpsv2-types:erpsv2_switch_operation_t
|   +---w port-id        ipi-erpsv2-types:erpsv2_port_id_t
+---x erpsv2-clear-ring-erp-instance {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w instance-name  string
+---x erpsv2-clear-aps-statistics {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
|   +---w input
|   +---w instance-name  string

```

```

+---x erpsv2-terminal-debug-on {feature-list:HAVE_G8032V2}?
| +---w input
|   +---w terminal-debug-options   ipi-erpsv2-types:erpsv2_debug_t
+---x erpsv2-terminal-debug-off {feature-list:HAVE_G8032V2}?
  +---w input
    +---w terminal-debug-options   ipi-erpsv2-types:erpsv2_debug_t

```

notifications:

```

+---n erpsv2-instance-state-change-notification {feature-list:HAVE_G8032V2}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro current-state? ipi-erpsv2-types:erpsv2_ring_state_t
| +--ro previous-state? ipi-erpsv2-types:erpsv2_ring_state_t
+---n erpsv2-east-interface-state-change-notification {feature-list:HAVE_G8032V2}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro link-name?     string
| +--ro link-state?    ipi-erpsv2-types:erpsv2_link_state_t
+---n erpsv2-west-interface-state-change-notification {feature-list:HAVE_G8032V2}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro name?          string
  +--ro link-name?     string
  +--ro link-state?    ipi-erpsv2-types:erpsv2_link_state_t

```

ipi-ethernet-vpn

```

+--rw evpn
  +--rw multi-homing
  | +--rw config
  | | +--rw esi-hold-time? uint32 {feature-list:HAVE_BGP_EVPN}?
  | +--ro state
  |   +--ro esi-hold-time? uint32 {feature-list:HAVE_BGP_EVPN}?

```

```
+--rw global
| +--rw config
| | +--rw enable-vxlan-multihoming?    empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
| | +--rw enable-evpn-mpls-multihoming? empty {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
| | +--rw enable-evpn-srv6-multihoming? empty {feature-list:HAVE_SRV6,feature-list:HAVE_BGP_EVPN}?
| | +--rw enable-irb?                  empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
| | +--rw enable-mpls-irb?             empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_MPLS,feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
| | +--rw enable-evpn-etree?           ipi-ethernet-vpn-types:evpn_etree_enable_scenario_t {feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
| | +--rw enable-evpn-storm-control?    empty {feature-list:HAVE_DNX,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
| | +--rw mac-seq-zero-handle?         empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
| +--ro state
|   +--ro enable-vxlan-multihoming?    empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
|   +--ro enable-evpn-mpls-multihoming? empty {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
|   +--ro enable-evpn-srv6-multihoming? empty {feature-list:HAVE_SRV6,feature-list:HAVE_BGP_EVPN}?
|   +--ro enable-irb?                  empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
|   +--ro enable-mpls-irb?             empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_MPLS,feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
|   +--ro enable-evpn-etree?           ipi-ethernet-vpn-types:evpn_etree_enable_scenario_t {feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
|   +--ro enable-evpn-storm-control?    empty {feature-list:HAVE_DNX,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
|   +--ro mac-seq-zero-handle?         empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
+--rw irb-forwarding
| +--rw config
| | +--rw mac-address?    cml-data-types:cml_mac_addr_t {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
| +--ro state
| | +--ro mac-address?    cml-data-types:cml_mac_addr_t {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
| +--rw irb-interfaces
|   +--rw irb-interface* [name]
|     +--rw name    -> ../config/name
|     +--rw config
|       | +--rw name?    -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
```

```

|   | +--rw gateway-mac?  empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO,feature-
list:HAVE_VXLAN,feature-list:HAVE_BGP_EVPN}?
|   +--ro state
|       +--ro name?      -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
|       +--ro gateway-mac?  empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO,feature-
list:HAVE_VXLAN,feature-list:HAVE_BGP_EVPN}?
+--rw mac-move-count
| +--rw config!
| | +--rw max-mac-move-count  uint8
| | +--rw duration?          uint16
| | +--rw freeze-time?       uint32
| +--ro state
|   +--ro max-mac-move-count  uint8
|   +--ro duration?          uint16
|   +--ro freeze-time?       uint32
+--rw interfaces
| +--rw interface* [name]
|   +--rw name              -> ../config/name
|   +--rw config
|   | +--rw name?          -> /ipi-interface:interfaces/interface/name
|   | +--rw evpn-segment-id?  string
|   | +--rw system-mac?      cml-data-types:cml_mac_addr_t
|   | +--rw redundancy-mode?  ipi-ethernet-vpn-types:evpn_esi_load_balance_mode_t
|   | +--rw evpn-mac-holdtime? uint32
|   +--ro state
|   | +--ro name?          -> /ipi-interface:interfaces/interface/name
|   | +--ro evpn-segment-id?  string
|   | +--ro system-mac?      cml-data-types:cml_mac_addr_t
|   | +--ro redundancy-mode?  ipi-ethernet-vpn-types:evpn_esi_load_balance_mode_t
|   | +--ro evpn-mac-holdtime? uint32
|   +--rw mh-load-balance-esi {feature-list:HAVE_DUNE}?
|   | +--rw config!
|   | | +--rw service-carving  ipi-ethernet-vpn-types:evpn_esi_svc_carving_df_election_t
|   | | +--rw preference-weight? uint16
|   | | +--rw no-preempt?      empty
|   | | +--rw ac-driven?       empty

```

```

| | +--ro state
| |   +--ro service-carving    ipi-ethernet-vpn-types:evpn_esi_svc_carving_df_election_t
| |   +--ro preference-weight? uint16
| |   +--ro no-preempt?        empty
| |   +--ro ac-driven?          empty
| +--rw access-interfaces
|   +--rw access-interface* [access-if] {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_NVO}?
|     +--rw access-if          -> ../config/access-if
|     +--rw config
|       | +--rw access-if?      ipi-ethernet-vpn-types:evpn_acc_if_t
|       | +--rw dynamic-learning-disable? empty
|       | +--rw arp-nd-flood-suppress? empty
|       | +--rw cos?            int16
|       | +--rw arp-cache-disable? empty
|       | +--rw nd-cache-disable? empty
|       | +--rw mac-hold-time?   int16
|       | +--rw mac-address*     cml-data-types:cml_mac_addr_t
|       | +--rw garp-gna-enable? empty {feature-list:HAVE_BGP_EVPN}?
|       | +--rw llf-enable?      empty
|       | +--rw ac-learning-limit? -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/
mac-lim-profile-name
|         +--ro state
|         | +--ro access-if?      ipi-ethernet-vpn-types:evpn_acc_if_t
|         | +--ro dynamic-learning-disable? empty
|         | +--ro arp-nd-flood-suppress? empty
|         | +--ro cos?            int16
|         | +--ro arp-cache-disable? empty
|         | +--ro nd-cache-disable? empty
|         | +--ro mac-hold-time?   int16
|         | +--ro mac-address*     cml-data-types:cml_mac_addr_t
|         | +--ro garp-gna-enable? empty {feature-list:HAVE_BGP_EVPN}?
|         | +--ro llf-enable?      empty
|         | +--ro ac-learning-limit? -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/
mac-lim-profile-name
|         +--rw evpn-id-mappings {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_NVO}?
|         | +--rw config

```

```

|      | | +--rw evpn-identifier? uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_MPLS_OR_HAVE_VXLAN_OR_HAVE_SRV6}?
|      | | +--rw evpn-etree-leaf? empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_DNX,feature-list:HAVE_MPLS}?
|      | +--ro state
|      |   +--ro evpn-identifier? uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_MPLS_OR_HAVE_VXLAN_OR_HAVE_SRV6}?
|      |   +--ro evpn-etree-leaf? empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_DNX,feature-list:HAVE_MPLS}?
|      +--rw ipv4-host-mac-mappings
|      | +--rw ipv4-host-mac-mapping* [mac-address ipv4-address] {feature-list:HAVE_SUBINTERFACE,feature-
list:HAVE_NVO}?
|      |   +--rw mac-address -> ../config/mac-address
|      |   +--rw ipv4-address -> ../config/ipv4-address
|      |   +--rw config
|      |   | +--rw mac-address? cml-data-types:cml_mac_addr_t
|      |   | +--rw ipv4-address? inet:ipv4-address
|      |   +--ro state
|      |   +--ro mac-address? cml-data-types:cml_mac_addr_t
|      |   +--ro ipv4-address? inet:ipv4-address
|      +--rw ipv6-host-mac-mappings
|      | +--rw ipv6-host-mac-mapping* [mac-address ipv6-address] {feature-list:HAVE_SUBINTERFACE,feature-
list:HAVE_NVO,feature-list:HAVE_IPV6}?
|      |   +--rw mac-address -> ../config/mac-address
|      |   +--rw ipv6-address -> ../config/ipv6-address
|      |   +--rw config
|      |   | +--rw mac-address? cml-data-types:cml_mac_addr_t
|      |   | +--rw ipv6-address? inet:ipv6-address
|      |   +--ro state
|      |   +--ro mac-address? cml-data-types:cml_mac_addr_t
|      |   +--ro ipv6-address? inet:ipv6-address
+--rw vrfs
+--rw vrf* [vrf-name]
+--rw vrf-name -> ../config/vrf-name
+--rw config
| +--rw vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| +--rw service-type? cml-data-types:cml_evpn_service_type_t
+--ro state

```

```

+--ro vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
+--ro service-type? cml-data-types:cml_evpn_service_type_t

```

ipi-event-manager

```

+--rw event-manager
|   +--rw config
|   |   +--rw feature? cml-data-types:cml_enable_disable_t
|   |   +--ro state
|   |   |   +--ro feature? cml-data-types:cml_enable_disable_t
|   |   +--rw event-entries
|   |   |   +--rw event-entry* [event-name]
|   |   |   |   +--rw event-name -> ../config/event-name
|   |   |   |   +--rw config
|   |   |   |   |   +--rw event-name? string
|   |   |   |   |   +--rw event-type ipi-event-manager-types:event_manager_event_type_t
|   |   |   |   |   +--rw event-id string
|   |   |   |   |   +--rw event-pattern? cml-data-types:cml_line_t
|   |   |   |   |   +--rw severity? ipi-event-manager-types:event_manager_severity_level_t
|   |   |   |   +--ro state
|   |   |   |   |   +--ro event-name? string
|   |   |   |   |   +--ro event-type ipi-event-manager-types:event_manager_event_type_t
|   |   |   |   |   +--ro event-id string
|   |   |   |   |   +--ro event-pattern? cml-data-types:cml_line_t
|   |   |   |   |   +--ro severity? ipi-event-manager-types:event_manager_severity_level_t
|   |   |   |   |   +--ro trigger-count? yang:counter64
|   |   |   |   |   +--ro policy-count? yang:counter64
|   |   |   |   |   +--ro status? ipi-event-manager-types:event_manager_status_t
|   |   |   |   |   +--ro policy-map? -> /event-manager/policies/policy/config/policy-name
|   |   +--rw action-entries
|   |   |   +--rw action-entry* [action-name]
|   |   |   |   +--rw action-name -> ../config/action-name
|   |   |   |   +--rw config
|   |   |   |   |   +--rw action-name? string
|   |   |   |   |   +--rw action-type ipi-event-manager-types:event_manager_action_type_t

```

```

| | +--rw action-script  string
| +--ro state
|   +--ro action-name?   string
|   +--ro action-type    ipi-event-manager-types:event_manager_action_type_t
|   +--ro action-script  string
|   +--ro trigger-count? yang:counter64
|   +--ro policy-count?  yang:counter64
|   +--ro status?        ipi-event-manager-types:event_manager_status_t
|   +--ro policy-map*    -> /event-manager/policies/policy/config/policy-name
+--rw policies
  +--rw policy* [policy-name]
    +--rw policy-name -> ../config/policy-name
    +--rw config
      | +--rw policy-name? string
      | +--rw event-name   -> /event-manager/event-entries/event-entry/event-name
      | +--rw action-name  -> /event-manager/action-entries/action-entry/action-name
      +--ro state
        +--ro policy-name?      string
        +--ro event-name        -> /event-manager/event-entries/event-entry/event-name
        +--ro action-name       -> /event-manager/action-entries/action-entry/action-name
        +--ro trigger-count?    yang:counter64
        +--ro status?           ipi-event-manager-types:event_manager_status_t
        +--ro last-execution-status? ipi-event-manager-types:event_manager_execution_status_t
        +--ro last-execution-time? string

```

rpcs:

```

+---x event-manager-clear-statistics-all {feature-list:HAVE_VLOGD,feature-list:HAVE_EVENT_MANAGER}?
+---x event-manager-clear-statistics-on-policy {feature-list:HAVE_VLOGD,feature-list:HAVE_EVENT_MANAGER}?
  +---w input
    +---w policy-name  string

```

ipi-evpn-mpls

```

+--rw evpn-mpls
  +--rw global

```



```

| +--rw config!
| | +--rw enable-evpn-mpls    empty
| | +--rw vtep-ipv4?         inet:ipv4-address
| | +--rw mac-ageing-timer?   uint32
| +--ro state
| | +--ro enable-evpn-mpls    empty
| | +--ro vtep-ipv4?         inet:ipv4-address
| | +--ro mac-ageing-timer?   uint32
| +--ro route-count
|   +--ro state
|     +--ro max-route?      uint32
|     +--ro active-route?   uint32
+--rw arp-nd-global
| +--rw config
| | +--rw arp-nd-refresh-time? uint32
| +--ro state
|   +--ro arp-nd-refresh-time? uint32
+--rw mpls-tenants
| +--rw mpls-tenant* [tenant-identifier]
|   +--rw tenant-identifier    -> ../config/tenant-identifier
|   +--rw config
|     | +--rw tenant-identifier?   uint32
|     | +--rw vpws-identifier?     uint32 {feature-list:HAVE_EVPN_VPWS}?
|     | +--rw control-word?        empty
|     | +--rw etree-leaf?          empty
|     | +--rw flow-label?          empty {feature-list:HAVE_DNX}?
|     | +--rw vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|     | +--rw mac-holdtime?        int32
|     | +--rw route-map?          string
|     | +--rw tenant-description?  string
|     | +--rw tunnel-policy-name?  string {feature-list:HAVE_SERVICE_MAPPING}?
|     | +--rw irb-name?           -> /ipi-interface:interfaces/interface/name
|     | +--rw evi-learning-limit?  -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-
lim-profile-name
|     +--ro state
|       | +--ro tenant-identifier?  uint32
|       | +--ro vpws-identifier?    uint32 {feature-list:HAVE_EVPN_VPWS}?

```

```

| | +--ro control-word?      empty
| | +--ro etree-leaf?       empty
| | +--ro flow-label?       empty {feature-list:HAVE_DNX}?
| | +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| | +--ro mac-holdtime?     int32
| | +--ro route-map?        string
| | +--ro tenant-description? string
| | +--ro tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING}?
| | +--ro irb-name?         -> /ipi-interface:interfaces/interface/name
| | +--ro evi-learning-limit? -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-
lim-profile-name
| +--ro route-count-info
| | +--ro state
| |   +--ro total?    uint32
| |   +--ro mac-only? uint32
| |   +--ro mac-ipv4? uint32
| |   +--ro mac-ipv6? uint32 {feature-list:HAVE_IPV6}?
| +--ro xconnect-mapping-info {feature-list:HAVE_EVPN_VPWS}?
| | +--ro state
| |   +--ro source-tenant-description? string
| |   +--ro destination-vpws-identifier? uint32
| |   +--ro source-interface?          string
| |   +--ro destination-interface?     string
| |   +--ro vtep-ip-address?           inet:ipv4-address
| |   +--ro connection-type?           ipi-evpn-mpls-types:evpn_mpls_xconnect_connection_type_t
| |   +--ro connection-status?        ipi-evpn-mpls-types:evpn_mpls_xconnect_connection_status_t
| +--rw irb
| | +--rw config
| | | +--rw irb-advertise-host-route? empty
| | +--ro state
| |   +--ro irb-advertise-host-route? empty
| +--ro arp-cache-info* [host-ip]
| | +--ro host-ip -> ../state/host-ip
| | +--ro state
| |   +--ro host-ip?  inet:ipv4-address
| |   +--ro host-mac?  cml-data-types:cml_mac_addr_t
| |   +--ro host-type? ipi-evpn-mpls-types:evpn_mpls_host_t

```

```

|   +--ro nd-cache-info* [host-ip]
|   |   +--ro host-ip   -> ../state/host-ip
|   |   +--ro state
|   |       +--ro host-ip?   inet:ipv6-address
|   |       +--ro host-mac?   cml-data-types:cml_mac_addr_t
|   |       +--ro host-type?   ipi-evpn-mpls-types:evpn_mpls_host_t
|   +--ro mac-table-info* [mac-address]
|   |   +--ro mac-address   -> ../state/mac-address
|   |   +--ro state
|   |       +--ro mac-address?       cml-data-types:cml_mac_addr_t
|   |       +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
|   |       +--ro vtep-ip-esi?        string
|   |       +--ro host-type?          ipi-evpn-mpls-types:evpn_mpls_host_t
|   |       +--ro host-status?        ipi-evpn-mpls-types:evpn_mpls_host_status_t
|   |       +--ro access-port-description? cml-data-types:cml_line_t
|   +--ro access-interface-info* [access-interface-name]
|   |   +--ro access-interface-name   -> ../state/access-interface-name
|   |   +--ro state
|   |       +--ro access-interface-name? string
|   |       +--ro tenant-description?   string
|   |       +--ro ethernet-segment-id?  string
|   |       +--ro port-status?          string
+--ro tunnel* [destination-vtep-ip destination-evpn-identifier]
|   +--ro destination-vtep-ip         -> ../state/destination-vtep-ip
|   +--ro destination-evpn-identifier -> ../state/destination-evpn-identifier
|   +--ro state
|       +--ro destination-vtep-ip?     inet:ipv4-address
|       +--ro destination-evpn-identifier? uint32
|       +--ro source-vtep-ip?          inet:ipv4-address
|       +--ro up-down-time?            yang:timeticks
|       +--ro tunnel-status?           ipi-evpn-mpls-types:evpn_mpls_tunnel_status_t
|       +--ro source-vpws-identifier?   uint32
|       +--ro destination-vpws-identifier? uint32
|       +--ro local-multicast-label?    uint32
|       +--ro local-unicast-label?      uint32
|       +--ro remote-multicast-label?   uint32

```

```

+--ro remote-unicast-label?      uint32
+--ro is_xconnect?               boolean
+--ro mpls-multipath-grp-name?   string
+--ro mpls-multipath-nhlfe-ix?   uint32
+--ro tunnel-label?             uint32
+--ro network-interface?         -> /ipi-interface:interfaces/interface/name
+--ro flow-aware-transport?      boolean {feature-list:HAVE_DNX}?
+--ro counters
  +--ro out-bum-packets?         yang:counter64
  +--ro out-unicast-packets?     yang:counter64
  +--ro in-bum-packets?          yang:counter64
  +--ro in-unicast-packets?      yang:counter64

```

rpcs:

```

+---x clear-nvo-mpls-dynamic-mac-address-table {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
+---x clear-nvo-mpls-dynamic-mac-address-table-evid {feature-list:HAVE_MPLS,feature-
list:HAVE_SUBINTERFACE}?
| +---w input
|   +---w tenant-identifier      uint32
|   +---w mac-address?          cml-data-types:cml_mac_addr_t
+---x clear-evpn-mpls-egress-counters {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
| +---w input
|   +---w tenant-identifier?     uint32
|   +---w egress-direction      ipi-evpn-mpls-types:evpn_mpls_egress_dir_t
|   +---w destination-ip?       inet:ipv4-address
+---x clear-evpn-mpls-ingress-counters {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
+---w input
  +---w tenant-identifier?       uint32
  +---w ingress-direction        ipi-evpn-mpls-types:evpn_mpls_ingress_dir_t

```

ipi-evpn-srv6

```

+--rw evpn-srv6
  +--rw global
  | +--rw config!
  | | +--rw enabled              empty

```

```

| | +--rw vtep-ipv6-address? inet:ipv6-address
| | +--rw mac-ageing-timer? uint32
| +--ro state
|   +--ro enabled          empty
|   +--ro vtep-ipv6-address? inet:ipv6-address
|   +--ro mac-ageing-timer? uint32
+--rw arp-nd-global
| +--rw config
| | +--rw arp-nd-refresh-time? uint32
| +--ro state
|   +--ro arp-nd-refresh-time? uint32
+--rw tenants
  +--rw tenant* [tenant-identifier]
    +--rw tenant-identifier -> ../config/tenant-identifier
    +--rw config
      | +--rw tenant-identifier? uint32
      | +--rw vpws-identifier?  uint32 {feature-list:HAVE_EVPN_VPWS}?
      | +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
      | +--rw mac-holdtime?     int32
      | +--rw tenant-description? string
      | +--rw tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
      | +--rw srv6-locator-name? string
      +--ro state
        +--ro tenant-identifier? uint32
        +--ro vpws-identifier?  uint32 {feature-list:HAVE_EVPN_VPWS}?
        +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
        +--ro mac-holdtime?     int32
        +--ro tenant-description? string
        +--ro tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
        +--ro srv6-locator-name? string

rpcs:
  +---x clear-nvo-srv6-dynamic-mac-address-table {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
  +---x clear-nvo-srv6-dynamic-mac-address-table-evid {feature-list:HAVE_SRV6,feature-
list:HAVE_SUBINTERFACE}?
    | +---w input
    |   +---w tenant-identifier uint32

```

```

|   +---w mac-address?      cml-data-types:cml_mac_addr_t
+---x clear-evpn-srv6-egress-counters {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
|   +---w input
|   +---w tenant-identifier? uint32
|   +---w egress-direction  cml-data-types:evpn_egress_dir_t
|   +---w destination-ip?   inet:ipv6-address
+---x clear-evpn-srv6-ingress-counters {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
  +---w input
    +---w tenant-identifier? uint32
    +---w ingress-direction  cml-data-types:evpn_ingress_dir_t

```

ipi-g8031

```

+--rw g8031
  +--rw instances
    | +--rw instance* [eps-id] {feature-list:HAVE_G8031}?
    |   +--rw eps-id   -> ../config/eps-id
    |   +--rw config
    |     | +--rw eps-id?      uint8
    |     | +--rw bridge-id    -> /ipi-network-instance:network-instances/network-instance/instance-name
    |     | +--rw working-port? -> /ipi-interface:interfaces/interface/name
    |     | +--rw protection-port? -> /ipi-interface:interfaces/interface/name
    |     | +--rw elps-instance-id? uint8
    |     | +--rw data-vlans?   cml-data-types:cml_range_t
    |     | +--rw primary-vlan? -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/ipi-
vlan:vlans/vlan/vlan-id
    |     | +--ro state
    |     |   | +--ro eps-id?      uint8
    |     |   | +--ro bridge-id    -> /ipi-network-instance:network-instances/network-instance/instance-name
    |     |   | +--ro working-port? -> /ipi-interface:interfaces/interface/name
    |     |   | +--ro protection-port? -> /ipi-interface:interfaces/interface/name
    |     |   | +--ro elps-instance-id? uint8
    |     |   | +--ro data-vlans?   cml-data-types:cml_range_t

```

```

| | +--ro primary-vlan?    -> /ipi-network-instance:network-instances/network-instance/ipi-
vlan:vlan:vlan/vlan-id
|   +--rw elps
|     +--rw config
|       | +--rw protection-type?    ipi-g8031-elps-types:g8031_elps_protection_type_t
|       | +--rw enable-revertive-mode? empty
|       | +--rw level-identifier?    uint8
|       +--ro state
|         | +--ro protection-type?    ipi-g8031-elps-types:g8031_elps_protection_type_t
|         | +--ro enable-revertive-mode? empty
|         | +--ro level-identifier?    uint8
|         | +--ro direction?          ipi-g8031-elps-types:g8031_direction_type_t
|         | +--ro active-path?        ipi-g8031-elps-types:g8031_active_path_type_t
|         | +--ro request-signal?     ipi-g8031-elps-types:g8031_request_signal_type_t
|         | +--ro current-state?      ipi-g8031-elps-types:g8031_current_state_type_t
|         | +--ro failure-of-protocol-state? ipi-g8031-elps-types:g8031_failure_of_protocol_state_type_t
|         | +--ro rx-lps-frame-count?  yang:counter32
|         | +--ro tx-lps-frame-count?  yang:counter32
|       +--rw timers
|         | +--rw config
|         | | +--rw wait-to-restore?  uint16
|         | | +--rw hold-off?        uint8
|         | +--ro state
|         | | +--ro wait-to-restore?  uint16
|         | | +--ro hold-off?        uint8
|       +--rw traffic-switch
|         +--rw config
|           | +--rw local-freeze? empty
|         +--ro state
|           +--ro local-freeze? empty
+--rw g8031-elps
| +--rw profiles
| | +--rw profile* [name] {feature-list:HAVE_G8031}?
| |   +--rw name    -> ../config/name
| |   +--rw config
| |     | +--rw name?      string
| |     | +--rw mode?     ipi-g8031-elps-types:g8031_mode_type_t

```

```

| | | +--rw switching-mode?      ipi-g8031-elps-types:g8031_switching_mode_type_t
| | | +--rw timer-hold-off?      uint8
| | | +--rw timer-wait-to-restore? uint32
| | +--ro state
| |   +--ro name?                string
| |   +--ro mode?                ipi-g8031-elps-types:g8031_mode_type_t
| |   +--ro switching-mode?      ipi-g8031-elps-types:g8031_switching_mode_type_t
| |   +--ro timer-hold-off?      uint8
| |   +--ro timer-wait-to-restore? uint32
| +--rw protections
| | +--rw protection* [group-name] {feature-list:HAVE_G8031}?
| |   +--rw group-name  -> ../config/group-name
| |   +--rw config
| |     +--rw group-name?  string
| |     +--rw working-port? -> /ipi-interface:interfaces/interface/name
| |     +--rw protection-port? -> /ipi-interface:interfaces/interface/name
| |   +--ro state
| |     +--ro group-name?  string
| |     +--ro working-port? -> /ipi-interface:interfaces/interface/name
| |     +--ro protection-port? -> /ipi-interface:interfaces/interface/name
| +--rw eps-instances
|   +--rw eps-instance* [name]
|     +--rw name          -> ../config/name
|     +--rw config
|       +--rw name?        string
|       +--rw eps-protection-group? -> /g8031/g8031-elps/protections/protection/group-name
|       +--rw g8031-profile-name? -> /g8031/g8031-elps/profiles/profile/name
|     +--ro state
|       +--ro name?          string
|       +--ro eps-protection-group? -> /g8031/g8031-elps/protections/protection/group-name
|       +--ro g8031-profile-name? -> /g8031/g8031-elps/profiles/profile/name
|       +--ro eps-id?        uint8
|       +--ro bridge?        string
|       +--ro direction?     string
|       +--ro revertive?     string
|       +--ro working-port?   string

```

```

|   | +--ro working-port-ifindex?    uint32
|   | +--ro wp-status?               string
|   | +--ro protection-port?         string
|   | +--ro protection-port-ifindex? uint32
|   | +--ro pp-status?               string
|   | +--ro current-state?           string
|   | +--ro request-signal?          string
|   | +--ro active-path?             string
|   | +--ro dfop-state?              string
|   | +--ro local-freeze?            string
|   | +--ro local-lockout?           string
|   | +--ro timer-status?            string
|   | +--ro hold-off?                string
|   | +--ro working-cfm-mep-id?      uint16
|   | +--ro working-cfm-cc-interval? string
|   | +--ro working-cfm-domain?      string
|   | +--ro working-cfm-ma?          string
|   | +--ro protection-cfm-mep-id?   uint16
|   | +--ro protection-cfm-cc-interval? string
|   | +--ro protection-cfm-domain?   string
|   | +--ro protection-cfm-ma?       string
|   | +--ro vlan-id?                 uint16
|   | +--ro inner-vid?               uint16
|   | +--ro data-vlan?               string
|   | +--ro level?                   uint8
|   | +--ro aps-statistics-tx?       uint32
|   | +--ro aps-statistics-rx?       uint32
|   +--rw aps-channel
|   | +--rw config
|   | | +--rw level? uint8
|   | | +--ro state
|   | |   +--ro level? uint8
|   +--rw control-vlans
|   | +--rw control-vlan* [vlan-id]
|   |   +--rw vlan-id -> ../config/vlan-id
|   |   +--rw config

```

```

|   |   | +--rw vlan-id?      uint16
|   |   | +--rw inner-vlan-id? uint16
|   |   +--ro state
|   |       +--ro vlan-id?      uint16
|   |       +--ro inner-vlan-id? uint16
|   +--rw data
|       +--rw config
|           | +--rw data-vlan?  cml-data-types:cml_range_t
|           +--ro state
|               +--ro data-vlan? cml-data-types:cml_range_t
+--rw debug
    +--rw config
    | +--rw options? ipi-g8031-elps-types:g8031_debug_t
    +--ro state
        +--ro options?          ipi-g8031-elps-types:g8031_debug_t
        +--ro terminal-debug-status? ipi-g8031-elps-types:g8031_debug_t

```

rpcs:

```

+---x g8031-lockout {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w instance-name  string
+---x g8031-exercise {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w instance-name  string
+---x g8031-terminal-debug-on {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w terminal-debug-options  ipi-g8031-elps-types:g8031_debug_t
+---x g8031-terminal-debug-off {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w terminal-debug-options  ipi-g8031-elps-types:g8031_debug_t
+---x elps-switch-elp-instance {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w instance-name  string
|   +---w operation      ipi-g8031-elps-types:g8031_eps_instance_switch
+---x eps-clear-ring-instance {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
    +---w input

```

```
+---w instance-name  string
+---w eps-type       ipi-g8031-elps-types:g8031_eps_instance_type
```

notifications:

```
+---n g8031-active-path-notification
+--ro severity?      cml-data-types:cml_notif_severity_t
+--ro eventClass?    cml-data-types:cml_notif_class_t
+--ro name?          string
+--ro eps-id?        uint8
+--ro working-port?  string
+--ro working-port-ifindex?  uint32
+--ro protection-port?  string
+--ro protection-port-ifindex? uint32
+--ro active-path?    string
```

ipi-global-te

```
+--rw admin-groups
| +--rw admin-group* [name id]
|   +--rw name    -> ../config/name
|   +--rw id      -> ../config/id
|   +--rw config
|     | +--rw name?  string
|     | +--rw id?   uint8
|     +--ro state
|       +--ro name?  string
|       +--ro id?   uint8
+--rw extended-admin-groups
| +--rw extended-admin-group* [name id]
|   +--rw name    -> ../config/name
|   +--rw id      -> ../config/id
|   +--rw config
|     | +--rw name?  string
|     | +--rw id?   uint32
|     +--ro state
|       +--ro name?  string
```

```

|   +--ro id?   uint32
+--rw srlg-maps
  +--rw srlg-map* [name id]
    +--rw name    -> ../config/name
    +--rw id      -> ../config/id
    +--rw config
      | +--rw name? string
      | +--rw id?   uint32
      +--ro state
        +--ro name? string
        +--ro id?   uint32

```

ipi-host

```

+--rw system-host {feature-list:HAVE_IMI}?
  +--rw config
    | +--rw banner-motd?          cml-data-types:cml_banner_t
    | +--rw banner-motd-file?     cml-data-types:cml_file_t
    | +--rw service-passwd-encryption?  boolean
    | +--rw service-term-length?   uint16
    | +--rw system-enable-passwd?    cml-data-types:cml_line_t
    | +--rw passwd-encrypted?       empty
    | +--rw disable-default-autoenable?  empty
    | +--rw disable-service-advanced-vty?  empty
    | +--rw term-monitor-default-behavior-disable?  empty
    | +--rw term-timestamping?       empty
    +--ro state
      +--ro banner-motd?          cml-data-types:cml_banner_t
      +--ro banner-motd-file?     cml-data-types:cml_file_t
      +--ro service-passwd-encryption?  boolean
      +--ro service-term-length?   uint16
      +--ro system-enable-passwd?    cml-data-types:cml_line_t
      +--ro passwd-encrypted?       empty
      +--ro disable-default-autoenable?  empty
      +--ro disable-service-advanced-vty?  empty
      +--ro term-monitor-default-behavior-disable?  empty

```

+--ro term-timestamping? empty

ipi-hwtable

notifications:

```
+---n hwtable-monitor-full-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n hwtable-monitor-full-clear-notification
    +--ro severity?   cml-data-types:cml_notif_severity_t
    +--ro eventClass? cml-data-types:cml_notif_class_t
    +--ro message?    string
```

ipi-if-aggregate

augment /ipi-interface:interfaces/ipi-interface:interface:

```
+--rw member-aggregation
  +--rw config!
    | +--rw agg-type   ipi-lag-types:lag_link_agg_type_t
    | +--rw aggregate-id uint16
    | +--rw lacp-mode   ipi-lag-types:lacp_mode_t
    +--ro state
      | +--ro agg-type   ipi-lag-types:lag_link_agg_type_t
      | +--ro aggregate-id uint16
      | +--ro lacp-mode   ipi-lag-types:lacp_mode_t
      +--rw port-channel-weight {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
        +--rw config
          | +--rw weight? uint16
        +--ro state
          +--ro weight? uint16
```

augment /ipi-interface:interfaces/ipi-interface:interface:

```
+--rw aggregator
```

```

+--rw config
| +--rw min-links?      uint8 {feature-list:HAVE_LACP}?
| +--rw min-bandwidth?  string {feature-list:HAVE_LACP}?
+--ro state
| +--ro min-links?      uint8 {feature-list:HAVE_LACP}?
| +--ro min-bandwidth?  string {feature-list:HAVE_LACP}?
| +--ro agg-min-links-state? ipi-lag-types:lag_agg_min_links_status
| +--ro agg-up-timestamp? ipi-lag-types:lag_up_time_t
+--ro members
  +--ro member* [link-name]
    +--ro link-name  -> ../state/link-name
    +--ro state
      +--ro link-name?  string
      +--ro link-state? ipi-lag-types:lag_member_link_status_t

```

notifications:

```

+---n agg-min-links-state-update
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro name?          string
  +--ro agg-min-links-state? ipi-lag-types:lag_agg_min_links_status

```

ipi-if-ethernet

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw ethernet
  +--rw config
  | +--rw duplex-mode?      ipi-if-types:if_duplex_t
  | +--rw secondary-mac-address? empty {feature-list:HAVE_MLAG}?
  | +--rw port-speed?       ipi-if-types:if_interface_speed_t {feature-list:NOT_HAVE_TIBIT}?
  +--ro state
  | +--ro duplex-mode?      ipi-if-types:if_duplex_t
  | +--ro secondary-mac-address? empty {feature-list:HAVE_MLAG}?
  | +--ro port-speed?       ipi-if-types:if_interface_speed_t {feature-list:NOT_HAVE_TIBIT}?
  | +--ro hw-mac-address?   cml-data-types:cml_mac_addr_t

```

```

| +--ro negotiated-duplex-mode? ipi-if-types:if_duplex_t
| +--ro negotiated-port-speed? ipi-if-types:if_interface_speed_t
| +--ro counters
|   +--ro in-mac-control-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|   +--ro in-mac-pause-frames? yang:counter64
|   +--ro in-undersize-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|   +--ro in-oversize-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|   +--ro in-fragment-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|   +--ro in-jabber-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|   +--ro in-crc-errors? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|   +--ro out-mac-control-frames? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|   +--ro out-mac-pause-frames? yang:counter64
|   +--ro in-distribution
|     | +--ro in-frames-64-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-65-127-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-128-255-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-256-511-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-512-1023-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-1024-1518-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-1519-2047-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-2048-4095-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-4096-9216-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     | +--ro in-frames-9217-16383-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
|     +--ro out-distribution

```

```

    |   +--ro out-frames-64-octets?      yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-65-127-octets?  yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-128-255-octets?  yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-256-511-octets?  yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-512-1023-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-1024-1518-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-1519-2047-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-2048-4095-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-4096-9216-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |   +--ro out-frames-9217-16383-octets? yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    +--rw flow-control {feature-list:HAVE_L2}?
      +--rw config
        | +--rw enable-rcv? ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
        | +--rw enable-snd? ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
      +--ro state
        +--ro enable-rcv? ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
        +--ro enable-snd? ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
        +--ro rcv-oper-status? ipi-if-types:if_flowctrl_t
        +--ro snd-oper-status? ipi-if-types:if_flowctrl_t

```

ipi-if-extended

```

+--rw link-scan
| +--rw config
| | +--rw link-scan-timer? uint16
| | +--rw snmp-lower-layer? empty
| +--ro state
|   +--ro link-scan-timer? uint16
|   +--ro snmp-lower-layer? empty

```



```

+--rw l2-protocol
| +--rw config
| | +--rw protocol-type? ipi-if-types:if_l2_proto_type
| +--ro state
|   +--ro protocol-type? ipi-if-types:if_l2_proto_type
+--rw mac-ageing
    +--rw config
    +--ro state

```

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw extended
    +--rw l2-control-protocol* [l2cp-type] {feature-list:HAVE_L2}?
    | +--rw l2cp-type -> ../config/l2cp-type
    | +--rw config
    | | +--rw l2cp-type? ipi-if-types:if_l2cp_t
    | | +--rw protocol-process ipi-if-types:if_l2cp_process_t
    | +--ro state
    |   +--ro l2cp-type? ipi-if-types:if_l2cp_t
    |   +--ro protocol-process ipi-if-types:if_l2cp_process_t
    +--rw config
    | +--rw link-flap-error-disable? empty {feature-list:HAVE_L2}?
    | +--rw storm-control-error-disable? empty {feature-list:HAVE_RATE_LIMIT}?
    | +--rw mac-move-limit-error-disable? empty {feature-list:HAVE_L2}?
    | +--rw mac-move-priority? uint32 {feature-list:HAVE_L2}?
    | +--rw disable-snmp-trap-link-status? empty
    | +--rw mau-default-type? ipi-if-types:if_mautype_t {feature-list:HAVE_L2}?
    | +--rw debounce-time? uint16
    | +--rw protected-port? ipi-if-types:if_protected_port_type_t
    | +--rw raon-aodu-port? ipi-if-types:if_raon_aodu_state {feature-list:HAVE_DUNE}?
    | +--rw ucmp-port? ipi-if-types:if_ucmp_state
    | +--rw revertive-timer? uint8 {feature-list:HAVE_DUNE}?
    | +--rw enable-non-revertive? empty {feature-list:HAVE_DUNE}?
    +--ro state
    | +--ro link-flap-error-disable? empty {feature-list:HAVE_L2}?
    | +--ro storm-control-error-disable? empty {feature-list:HAVE_RATE_LIMIT}?
    | +--ro mac-move-limit-error-disable? empty {feature-list:HAVE_L2}?

```

```

| +--ro mac-move-priority?          uint32 {feature-list:HAVE_L2}?
| +--ro disable-snmp-trap-link-status?  empty
| +--ro mau-default-type?            ipi-if-types:if_mautype_t {feature-list:HAVE_L2}?
| +--ro debounce-time?              uint16
| +--ro protected-port?              ipi-if-types:if_protected_port_type_t
| +--ro raon-aodu-port?              ipi-if-types:if_raon_aodu_state {feature-list:HAVE_DUNE}?
| +--ro ucmp-port?                  ipi-if-types:if_ucmp_state
| +--ro revertive-timer?              uint8 {feature-list:HAVE_DUNE}?
| +--ro enable-non-revertive?         empty {feature-list:HAVE_DUNE}?
| +--ro properties?                  ipi-if-types:if_iface_prop_t
| +--ro mapped-name?                 string
| +--ro if-counter-discontinuity-time? yang:timestamp
| +--ro slot-id?                     uint32
| +--ro hardware-type?               ipi-if-types:if_hw_type_t
| +--ro metric?                      int32
| +--ro if-type?                     ipi-if-types:if_interface_type_t
| +--ro trust-state?                 ipi-if-types:if_trust_state_t {feature-list:HAVE_QOS}?
| +--ro monitor-port-grp?            boolean {feature-list:HAVE_TFO}?
| +--ro failover-link-type?          ipi-if-types:if_tfo_link_type_t {feature-list:HAVE_TFO}?
| +--ro udld-flush-transmitted?       uint16 {feature-list:HAVE_UDLD}?
| +--ro linkup-debounce-interval?     yang:counter32
| +--ro linkdown-debounce-interval?   yang:counter32
| +--ro link-debounce-flap-count?     uint16
| +--ro link-debounce-config-status?   ipi-if-types:if_debounce_running_state
| +--ro link-debounce-last-flap-time?  yang:date-and-time
| +--ro linkup-debounce-running-status? ipi-if-types:if_debounce_running_state
| +--ro linkdown-debounce-running-status? ipi-if-types:if_debounce_running_state
| +--ro linkup-debounce-remain-time?   yang:counter32
| +--ro linkdown-debounce-remain-time? yang:counter32
| +--ro debounce-flap-count?          uint16
| +--ro debounce-last-flap-time?       yang:date-and-time
| +--ro debounce-remain-time?          yang:counter32
| +--ro debounce-running-status?       ipi-if-types:if_debounce_running_state
| +--ro debounce-config-status?        ipi-if-types:if_debounce_running_state
| +--ro last-flapped?                 ipi-if-types:if_last_clear_time_t
| +--ro auto-ipv6-link-local-address?  cml-data-types:cml_ipv6_prefix_t {feature-list:HAVE_IPV6}?

```

```

| +--ro current-load-interval?      uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
+--rw bandwidth-management
| +--rw config
|   +--rw enable-re-routing?  empty
+--rw port-monitor
| +--rw config
| | +--rw enable-speed?      empty
| | +--rw enable-queue-drops? empty
| | +--rw enable-pfc-mon?    empty
| | +--rw enable-ecn-mon?    empty
| +--ro state
| | +--ro enable-speed?      empty
| | +--ro enable-queue-drops? empty
| | +--ro enable-pfc-mon?    empty
| | +--ro enable-ecn-mon?    empty
| +--rw port-monitor-threshold
|   +--rw config!
|     +--rw warning-threshold  uint8
|     +--rw recovery-threshold uint8
|   +--ro state
|     +--ro warning-threshold  uint8
|     +--ro recovery-threshold uint8
+--ro capabilities {feature-list:HAVE_HAL}?
| +--ro state
|   +--ro speed-half-duplex?  string
|   +--ro speed-full-duplex?  string
|   +--ro pause?              ipi-if-types:if_raw_string_t
|   +--ro interface-type?     ipi-if-types:if_raw_string_t
|   +--ro medium?             ipi-if-types:if_raw_string_t
|   +--ro loopback?           ipi-if-types:if_raw_string_t
|   +--ro flags?              string
|   +--ro eee?                ipi-if-types:if_raw_string_t
|   +--ro fcmmap?             string
|   +--ro encapsulation?      ipi-if-types:if_raw_string_t
|   +--ro fec?                ipi-if-types:if_raw_string_t
|   +--ro macsec?             string {feature-list:HAVE_MACSEC}?

```

```

+--rw service-queue {feature-list:HAVE_SUBINTERFACE}?
| +--rw config
| | +--rw subif-service-queue? ipi-if-types:if_subif_sevice_queue_t
| +--ro state
|   +--ro subif-service-queue? ipi-if-types:if_subif_sevice_queue_t
+--rw aclif
| +--rw config
| | +--rw aclif-type? ipi-if-types:if_aclif_type_t
| +--ro state
|   +--ro aclif-type? ipi-if-types:if_aclif_type_t
+--rw subinterface-encapsulation {feature-list:HAVE_SUBINTERFACE}?
| +--rw config
| | +--rw encap-default? empty
| | +--rw encap-untagged? empty
| +--ro state
| | +--ro encap-default? empty
| | +--ro encap-untagged? empty
| +--rw rewrite
| | +--rw config!
| | | +--rw vlan-action ipi-if-types:if_subif_l2_vlan_actiontype_t
| | | +--rw (vlan-action-type)?
| | |   +--:(pop)
| | |   | +--rw enable-pop ipi-if-types:if_subif_rewrite_pop_type_t
| | |   +--:(push)
| | |   | +--rw push-tpid ipi-if-types:cml_outer_tpid_type_t
| | |   | +--rw push-outer-vlan-id uint16
| | |   | +--rw push-inner-vlan-id? uint16
| | |   +--:(translate)
| | |   +--rw rewrite-translate-action ipi-if-types:if_subif_l2_rewrite_actiontype_t
| | |   +--rw dot1q-dot1ad-tpid ipi-if-types:cml_outer_tpid_type_t
| | |   +--rw outer-vlan-id uint16
| | |   +--rw i-dot1q-dot1ad-tpid ipi-if-types:cml_inner_tpid_type_t
| | |   +--rw inner-vlan-id uint16
| | +--ro state
| | | +--ro vlan-action ipi-if-types:if_subif_l2_vlan_actiontype_t
| | | +--ro (vlan-action-type)?

```

```

| | | +--:(pop)
| | | | +--ro enable-pop          ipi-if-types:if_subif_rewrite_pop_type_t
| | | +--:(push)
| | | | +--ro push-tpid          ipi-if-types:cml_outer_tpid_type_t
| | | | +--ro push-outer-vlan-id  uint16
| | | | +--ro push-inner-vlan-id? uint16
| | | +--:(translate)
| | |   +--ro rewrite-translate-action ipi-if-types:if_subif_l2_rewrite_actiontype_t
| | |   +--ro dot1q-dot1ad-tpid      ipi-if-types:cml_outer_tpid_type_t
| | |   +--ro outer-vlan-id          uint16
| | |   +--ro i-dot1q-dot1ad-tpid    ipi-if-types:cml_inner_tpid_type_t
| | |   +--ro inner-vlan-id          uint16
| | +--rw egress {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_DNX}?
| |   +--rw config
| |     | +--rw disable-egr-pcp?  empty {feature-list:HAVE_DNX}?
| |     | +--ro state
| |     |   +--ro disable-egr-pcp? empty {feature-list:HAVE_DNX}?
| |   +--rw single-tag-vlan-matches
| |     | +--rw single-tag-vlan-match* [encapsulation-type]
| |     |   +--rw encapsulation-type  -> ../config/encapsulation-type
| |     |   +--rw config
| |     |     | +--rw encapsulation-type? ipi-if-types:if_subif_encap_type_t
| |     |     | +--rw outer-vlan-id*      string
| |     |     | +--ro state
| |     |     |   +--ro encapsulation-type? ipi-if-types:if_subif_encap_type_t
| |     |     |   +--ro outer-vlan-id*      string
| |   +--rw double-tag-vlan-matches
| |     | +--rw double-tag-vlan-match* [encap-type outer-vlan-id]
| |     |   +--rw encap-type          -> ../config/encap-type
| |     |   +--rw outer-vlan-id       -> ../config/outer-vlan-id
| |     |   +--rw config
| |     |     | +--rw encap-type?      ipi-if-types:if_subif_encap_type_t
| |     |     | +--rw outer-vlan-id?   string
| |     |     | +--rw inner-vlan-id*   string
| |     |     | +--ro state
| |     |     |   +--ro encap-type?    ipi-if-types:if_subif_encap_type_t

```

```

|      +--ro outer-vlan-id?  string
|      +--ro inner-vlan-id*  string
+--rw subinterface-split-horizon {feature-list:HAVE_SUBINTERFACE}?
| +--rw config
| | +--rw split-horizon-group?  ipi-if-types:if_split_horizon_t
| +--ro state
|   +--ro split-horizon-group?  ipi-if-types:if_split_horizon_t
+--rw link-debounce-time
| +--rw config!
| | +--rw linkup-debounce-time   uint32
| | +--rw linkdown-debounce-time uint32
| +--ro state
|   +--ro linkup-debounce-time   uint32
|   +--ro linkdown-debounce-time uint32
+--rw minimum-bandwidth {feature-list:HAVE_TE}?
  +--rw config!
  | +--rw rate      uint32
  | +--rw rate-unit  ipi_if_extended_rate_unit_t
  +--ro state
    +--ro rate      uint32
    +--ro rate-unit  ipi_if_extended_rate_unit_t
augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet:
+--rw extended-ethernet
+--rw config
| +--rw forward-err-correction? ipi-if-types:if_intf_fec_t
| +--rw load-interval?          uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
+--ro state
  +--ro forward-err-correction? ipi-if-types:if_intf_fec_t
  +--ro load-interval?          uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
  +--ro default-duplex-mode?    uint8
  +--ro default-speed?         string
augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet:
+--rw storm-control {feature-list:HAVE_RATE_LIMIT}?
+--rw broadcast {feature-list:HAVE_RATE_LIMIT}?
| +--rw config! {feature-list:HAVE_RATE_LIMIT}?
| | +--rw bcast-value          ipi-if-types:if_rate_limit_t

```

```
| | +--rw bcast-rate-limit-format  ipi-if-types:if_rate_limit_type
| | +--rw bcast-burst-value        uint32
| +--ro state {feature-list:HAVE_RATE_LIMIT}?
|   +--ro bcast-value              ipi-if-types:if_rate_limit_t
|   +--ro bcast-rate-limit-format  ipi-if-types:if_rate_limit_type
|   +--ro bcast-burst-value        uint32
|   +--ro hardware-applied-bcast-value?  decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
+--rw multicast {feature-list:HAVE_RATE_LIMIT}?
| +--rw config! {feature-list:HAVE_RATE_LIMIT}?
| | +--rw mcast-value              ipi-if-types:if_rate_limit_t
| | +--rw mcast-rate-limit-format  ipi-if-types:if_rate_limit_type
| | +--rw mcast-burst-value        uint32
| +--ro state {feature-list:HAVE_RATE_LIMIT}?
|   +--ro mcast-value              ipi-if-types:if_rate_limit_t
|   +--ro mcast-rate-limit-format  ipi-if-types:if_rate_limit_type
|   +--ro mcast-burst-value        uint32
|   +--ro hardware-applied-mcast-value?  decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
+--rw dlf-broadcast {feature-list:HAVE_RATE_LIMIT}?
+--rw config! {feature-list:HAVE_RATE_LIMIT}?
| +--rw dlf-bcast-value            ipi-if-types:if_rate_limit_t
| +--rw dlf-bcast-rate-limit-format  ipi-if-types:if_rate_limit_type
| +--rw dlf-bcast-burst-value        uint32
+--ro state {feature-list:HAVE_RATE_LIMIT}?
+--ro dlf-bcast-value              ipi-if-types:if_rate_limit_t
+--ro dlf-bcast-rate-limit-format  ipi-if-types:if_rate_limit_type
+--ro dlf-bcast-burst-value        uint32
+--ro hardware-applied-dlf-bcast-value?  decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
augment /ipi-interface:interfaces/ipi-interface:interface/ipi-interface:state:
+--ro custom-state
+--ro current-bandwidth?  uint64
augment /ipi-interface:interfaces/ipi-interface:interface/ipi-interface:state/ipi-interface:counters:
+--ro extended-counters
+--ro in-compressed?      yang:counter64
+--ro out-compressed?     yang:counter64
```

```

+--ro collisions?          yang:counter64
+--ro unicast-rpf-discard? yang:counter64
+--ro in-length-errors?    yang:counter64
+--ro in-oversize-errors?  yang:counter64
+--ro in-crc-errors?       yang:counter64
+--ro in-frame-errors?     yang:counter64
+--ro in-fifo-errors?      yang:counter64
+--ro in-missed-errors?    yang:counter64
+--ro out-aborted-errors?  yang:counter64
+--ro out-carrier-errors?  yang:counter64
+--ro out-fifo-errors?     yang:counter64
+--ro out-heartbeat-errors yang:counter64
+--ro out-window-errors?   yang:counter64
+--ro l2-protocol-pkt-stat* [l2cp-counter-type] {feature-list:HAVE_HAL,feature-list:HAVE_BROADCOM}?
| +--ro lacp-counters?     yang:counter64
| +--ro stp-counters?      yang:counter64
| +--ro lldp-counters?     yang:counter64
| +--ro efmCounters?       yang:counter64
| +--ro elmi-counters?     yang:counter64
| +--ro dot1x-counters?    yang:counter64
| +--ro synce-counters?    yang:counter64
| +--ro l2cp-counter-type  ipi-if-types:if_l2cp_stats_process_t
+--ro error-disable-reason? ipi-if-types:if_errdisable_state_t

```

augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet/ipi-if-ethernet:state/ipi-if-ethernet:counters:

```

+--ro extended-ethernet-counters {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR,feature-list:NOT_HAVE_POND}?
+--ro protocol-pkt-stats {feature-list:HAVE_HAL,feature-list:HAVE_BROADCOM}?
| +--ro in-bgp-pkts?       yang:counter32
| +--ro in-ospf-pkts?      yang:counter32
| +--ro in-isis-pkts?      yang:counter32
| +--ro in-ldp-rsvp-pkts?   yang:counter32
| +--ro in-arp-pkts?       yang:counter32
| +--ro in-evpn-pkts?      yang:counter32
| +--ro in-igmp-pkts?      yang:counter32
| +--ro in-pim-pkts?       yang:counter32
| +--ro in-bpdu-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?

```



```

| +--ro in-oamp-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-bfd-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-vrrp-rip-dhcp-pkts? yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-rsvd-mc-pkts?   yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-link-local-pkts? yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-icmp-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-icmp-redirect-pkts? yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-misc-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?
| +--ro in-total-pkts?     yang:counter32
+--ro in-good-octets?      yang:counter64
+--ro in-bad-octets?       yang:counter64
+--ro mac-transmit-error?   yang:counter64
+--ro in-good-pkts?        yang:counter64
+--ro in-bad-pkts?         yang:counter64
+--ro out-good-octets?     yang:counter64
+--ro out-good-pkts?       yang:counter64
+--ro excessive-collisions? yang:counter64
+--ro in-unrecognized-mac-control? yang:counter64
+--ro drop-events?         yang:counter64
+--ro in-mac-errors?       yang:counter64
+--ro in-dribble-errors?    yang:counter64
+--ro collisions-state?    yang:counter64
+--ro late-collisions?     yang:counter64
+--ro deferred-tx?         yang:counter64
+--ro mtu-exceed-discards? yang:counter64
+--ro in-jumbo-frames?     yang:counter64
+--ro out-jumbo-frames?    yang:counter64
+--ro receive-pkt-rate?    yang:counter64
+--ro receive-bit-rate?    yang:counter64
+--ro send-pkt-rate?       yang:counter64
+--ro send-bit-rate?       yang:counter64
augment /ipi-interface:interfaces:
+--rw global
+--rw config
| +--rw load-interval? uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
+--ro state

```

```

| +--ro load-interval? uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
+--rw error-disable
| +--rw config
| | +--rw reason? ipi-if-types:if_err_reason_t
| | +--rw error-disable-stp-bpdu-guard? boolean
| | +--rw timeout-interval? uint32 {feature-list:HAVE_L2}?
| | +--rw link-flap-max-count? uint32 {feature-list:HAVE_L2}?
| | +--rw link-flap-timer-interval? uint32 {feature-list:HAVE_L2}?
| | +--rw mac-move-limit? uint32 {feature-list:HAVE_L2}?
| | +--rw storm-control-max-count? uint32 {feature-list:HAVE_RATE_LIMIT}?
| | +--rw storm-control-timer-interval? uint32 {feature-list:HAVE_RATE_LIMIT}?
| +--ro state
| +--ro reason? ipi-if-types:if_err_reason_t
| +--ro error-disable-stp-bpdu-guard? boolean
| +--ro timeout-interval? uint32 {feature-list:HAVE_L2}?
| +--ro link-flap-max-count? uint32 {feature-list:HAVE_L2}?
| +--ro link-flap-timer-interval? uint32 {feature-list:HAVE_L2}?
| +--ro mac-move-limit? uint32 {feature-list:HAVE_L2}?
| +--ro storm-control-max-count? uint32 {feature-list:HAVE_RATE_LIMIT}?
| +--ro storm-control-timer-interval? uint32 {feature-list:HAVE_RATE_LIMIT}?
| +--ro default-link-flap-count? uint32
| +--ro default-link-flap-timer-interval? uint32
| +--ro default-storm-control-max-count? uint32 {feature-list:HAVE_RATE_LIMIT}?
| +--ro default-storm-control-timer-interval? uint32 {feature-list:HAVE_RATE_LIMIT}?
| +--ro link-flap-status? ipi-if-types:if_errdis_status_t
| +--ro storm-control-status? ipi-if-types:if_errdis_status_t
| +--ro lag-mismatch-status? ipi-if-types:if_errdis_status_t
| +--ro stp-bpdu-guard-status? ipi-if-types:if_errdis_status_t
| +--ro mac-move-limit-status? ipi-if-types:if_errdis_status_t
+--rw l2-control-protocols {feature-list:HAVE_L2}?
| +--rw l2-control-protocol* [l2cp-type]
| +--rw l2cp-type -> ../config/l2cp-type
| +--rw config
| | +--rw l2cp-type? ipi-if-types:if_l2cp_t
| | +--rw protocol-process ipi-if-types:if_l2cp_process_t
| +--ro state

```

```

|   +--ro l2cp-type?      ipi-if-types:if_l2cp_t
|   +--ro protocol-process ipi-if-types:if_l2cp_process_t
+--rw mtus
  +--rw mtu* [if-type]
    +--rw if-type  -> ../config/if-type
    +--rw config
      | +--rw if-type? ipi-if-types:if_global_mtu_if_type_t
      | +--rw mtu      uint32
      +--ro state
        +--ro if-type? ipi-if-types:if_global_mtu_if_type_t
        +--ro mtu      uint32
augment /ipi-interface:interfaces/ipi-interface:interface:
+--rw tunnel {feature-list:HAVE_TUNNEL}?
  +--rw config
    | +--rw mode?      ipi-if-types:if_tunnel_mode_t
    | +--rw src?       inet:ipv4-address
    | +--rw multicast-interface? string {feature-list:HAVE_VXLAN}?
    | +--rw dst?       inet:ipv4-address
    | +--rw checksum-enable? empty
    | +--rw tos-byte?   uint16
    | +--rw ttl?       uint16
    | +--rw path-mtu-enable? empty
    | +--rw dst-mac-address? string {feature-list:HAVE_USER_HSL}?
    | +--rw gre-key?    ipi-if-types:if_tunnel_key_t {feature-list:HAVE_GRE_KEY}?
  +--ro state
    +--ro mode?      ipi-if-types:if_tunnel_mode_t
    +--ro src?       inet:ipv4-address
    +--ro multicast-interface? string {feature-list:HAVE_VXLAN}?
    +--ro dst?       inet:ipv4-address
    +--ro checksum-enable? empty
    +--ro tos-byte?   uint16
    +--ro ttl?       uint16
    +--ro path-mtu-enable? empty
    +--ro dst-mac-address? string {feature-list:HAVE_USER_HSL}?
    +--ro gre-key?    ipi-if-types:if_tunnel_key_t {feature-list:HAVE_GRE_KEY}?
augment /ipi-interface:interfaces:

```

```

+--rw port-group-speed-map* [group-index] {feature-list:HAVE_DUNE,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?

```

```

  +--rw group-index  -> ../config/group-index

```

```

  +--rw config

```

```

    | +--rw group-index?  uint8

```

```

    | +--rw group-speed  ipi-if-types:if_port_group_speed_t {feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?

```

```

  +--ro state

```

```

    +--ro group-index?  uint8

```

```

    +--ro group-speed  ipi-if-types:if_port_group_speed_t {feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?

```

```

rpcs:

```

```

+---x clear-interface-forward-error-correction-counters

```

```

| +---w input

```

```

|   +---w if-name  string

```

```

+---x clear-interface-error-disable

```

```

| +---w input

```

```

|   +---w if-name  string

```

```

+---x interface-sniff-enable {feature-list:HAVE_SNIFF_INTF}?

```

```

| +---w input

```

```

|   +---w interface-name  string

```

```

|   +---w sniffTime      uint8

```

```

|   +---w sniffAction    ipi-if-types:if_sniff_action_t

```

```

|   +---w sniff1        boolean

```

```

+---x interface-sniff-disable {feature-list:HAVE_SNIFF_INTF}?

```

```

  +---w input

```

```

    +---w interface-name  string

```

```

notifications:

```

```

+---n interface-error-disable-notification

```

```

| +--ro severity?          cml-data-types:cml_notif_severity_t

```

```

| +--ro eventClass?        cml-data-types:cml_notif_class_t

```

```

| +--ro name?              string

```

```

| +--ro error-disable-reason? ipi-if-types:if_errdisable_state_t

```

```

+---n interface-bandwidth-start

```

```

| +--ro severity?          cml-data-types:cml_notif_severity_t

```

```

| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro current-bandwidth? uint64
+---n interface-bandwidth-upgrade
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro current-bandwidth? uint64
+---n interface-bandwidth-downgrade
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro current-bandwidth? uint64
+---n interface-bandwidth-close
  +--ro severity?       cml-data-types:cml_notif_severity_t
  +--ro eventClass?     cml-data-types:cml_notif_class_t
  +--ro name?           string
  +--ro current-bandwidth? uint64

```

ipi-if-flowspec

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw interface-flowspec
  +--rw ipv4
    +--rw config
      | +--rw flowspec-disable? empty
      +--ro state
        +--ro flowspec-disable? empty

```

ipi-if-ip

```

+--rw ip-global
  +--rw vrf* [vrf-name] {feature-list:HAVE_VRF}?
    | +--rw vrf-name -> ../config/vrf-name

```

```

| +--rw config
| | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | | +--rw disable-ip-vrf-forwarding?  empty
| | | +--rw disable-ipv6-vrf-forwarding? empty {feature-list:HAVE_IPV6}?
| | | +--rw enable-icmp-broadcast?      empty
| | +--ro state
| | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | +--ro disable-ip-vrf-forwarding?  empty
| | +--ro disable-ipv6-vrf-forwarding? empty {feature-list:HAVE_IPV6}?
| | +--ro enable-icmp-broadcast?      empty
+--rw config
| +--rw router-id?          string
| +--rw enable-auto-router-id-selection?  empty
| +--rw disable-ip-forwarding?            empty
| +--rw disable-ipv6-forwarding?          empty {feature-list:HAVE_IPV6}?
| +--rw default-vrf-enable-icmp-broadcast? empty
+--ro state
  +--ro router-id?          string
  +--ro enable-auto-router-id-selection?  empty
  +--ro disable-ip-forwarding?            empty
  +--ro disable-ipv6-forwarding?          empty {feature-list:HAVE_IPV6}?
  +--ro default-vrf-enable-icmp-broadcast? empty

```

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw ipv4
  +--rw secondary-addresses* [ip-address]
  | +--rw ip-address  -> ../config/ip-address
  | +--rw config
  | | +--rw ip-address?      cml-data-types:cml_ipv4_prefix_t
  | | +--rw ip-label?       cml-data-types:cml_line_t
  | | +--rw secondary-anycast? empty
  | +--ro state
  | +--ro ip-address?      cml-data-types:cml_ipv4_prefix_t
  | +--ro ip-label?       cml-data-types:cml_line_t
  | +--ro secondary-anycast? empty

```

```
+--rw config
| +--rw primary-ip-addr?      cml-data-types:cml_ipv4_prefix_t
| +--rw enable-dhcp-ip-address? empty {feature-list:HAVE_DHCP_CLIENT}?
| +--rw prefix-length?       uint8
| +--rw ip-addr-label?       cml-data-types:cml_line_t
| +--rw ipv4-unnumbered-if-name? string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
| +--rw remote-address?      string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
| +--rw primary-anycast?     empty
+--ro state
  +--ro primary-ip-addr?      cml-data-types:cml_ipv4_prefix_t
  +--ro enable-dhcp-ip-address? empty {feature-list:HAVE_DHCP_CLIENT}?
  +--ro prefix-length?       uint8
  +--ro ip-addr-label?       cml-data-types:cml_line_t
  +--ro ipv4-unnumbered-if-name? string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
  +--ro remote-address?      string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
  +--ro primary-anycast?     empty
  +--ro dhcp-ip-address?      cml-data-types:cml_ipv4_prefix_t {feature-list:HAVE_DHCP_CLIENT}?
  +--ro ipv4-enabled-status?  boolean
augment /ipi-interface:interfaces/ipi-interface:interface:
+--rw ipv6 {feature-list:HAVE_IPV6}?
  +--rw addresses* [ipv6-address] {feature-list:HAVE_IPV6}?
  | +--rw ipv6-address -> ../config/ipv6-address
  | +--rw config
  | | +--rw ipv6-address? cml-data-types:cml_ipv6_prefix_t
  | | +--rw anycast?     empty
  | +--ro state
  | +--ro ipv6-address? cml-data-types:cml_ipv6_prefix_t
  | +--ro anycast?     empty
  +--rw config
  | +--rw ipv6-unnumbered-if-name? string {feature-list:HAVE_NSM_IF_UNNUMBERED,feature-
list:HAVE_IPV6}?
  | +--rw enable-dhcp-ipv6-address? empty {feature-list:HAVE_DHCP_CLIENT}?
  | +--rw enable-dhcp-temporary-ipv6-address? empty {feature-list:HAVE_DHCP_CLIENT}?
  | +--rw dhcp-address-prefix-length? uint8 {feature-list:HAVE_DHCP_CLIENT}?
  | +--rw enable-auto-config?        boolean {feature-list:HAVE_IPV6}?
  | +--rw max-autoconfig-address?    uint8
  +--ro state
```

```

| +--ro ipv6-unnumbered-if-name?      string {feature-list:HAVE_NSM_IF_UNNUMBERED,feature-
list:HAVE_IPV6}?
| +--ro enable-dhcp-ipv6-address?      empty {feature-list:HAVE_DHCP_CLIENT}?
| +--ro enable-dhcp-temporary-ipv6-address? empty {feature-list:HAVE_DHCP_CLIENT}?
| +--ro dhcp-address-prefix-length?    uint8 {feature-list:HAVE_DHCP_CLIENT}?
| +--ro enable-auto-config?            boolean {feature-list:HAVE_IPV6}?
| +--ro max-autoconfig-address?        uint8
| +--ro dhcp-ipv6-addrress?            cml-data-types:cml_ipv6_prefix_t {feature-list:HAVE_DHCP_CLIENT}?
| +--ro forwarding-status?             boolean {feature-list:HAVE_IPV6}?
+--ro auto-addresses {feature-list:HAVE_IPV6}?
  +--ro auto-address* [ipv6-address]
    +--ro ipv6-address -> ../state/ipv6-address
    +--ro state
      +--ro ipv6-address? cml-data-types:cml_ipv6_prefix_t
      +--ro anycast?      empty
      +--ro virtual?      empty
      +--ro vrrp?         empty {feature-list:HAVE_VRRP_V3}?

```

ipi-igmp-snooping

```

+--rw igmp-snooping
  +--rw global
    | +--rw config
    | | +--rw disable-igmp-snooping?      empty
    | | +--rw disable-report-suppression? empty
    | | +--rw unknown-multicast-action?    ipi-igmp-snooping-types:igmp_snoop_unknown_mcast_action_t
    | +--ro state
    | +--ro disable-igmp-snooping?      empty
    | +--ro disable-report-suppression? empty
    | +--ro unknown-multicast-action?    ipi-igmp-snooping-types:igmp_snoop_unknown_mcast_action_t
  +--rw debug
    | +--rw config

```



```

| | +--rw options? ipi-igmp-snooping-types:igmp_snoop_debug_options_t
| +--ro state
|   +--ro options? ipi-igmp-snooping-types:igmp_snoop_debug_options_t
|   +--ro terminal-debug-status? ipi-igmp-snooping-types:igmp_snoop_debug_options_t
+--rw interfaces
  +--rw interface* [name]
    +--rw name -> ../config/name
    +--rw config
      | +--rw name? -> /ipi-interface:interfaces/interface/name
      | +--rw igmp-snooping? cml-data-types:cml_enable_disable_t
      | +--rw enable-fast-leave? empty
      | +--rw report-suppression? cml-data-types:cml_enable_disable_t
      | +--rw mrouter-interface-name* -> /ipi-interface:interfaces/interface/name
      | +--rw enable-querier? empty
    +--ro state
      | +--ro name? -> /ipi-interface:interfaces/interface/name
      | +--ro igmp-snooping? cml-data-types:cml_enable_disable_t
      | +--ro enable-fast-leave? empty
      | +--ro report-suppression? cml-data-types:cml_enable_disable_t
      | +--ro mrouter-interface-name* -> /ipi-interface:interfaces/interface/name
      | +--ro enable-querier? empty
    +--rw static-groups
      +--rw ssm-groups
        | +--rw ssm-group* [group-address source-address interface-name]
        |   +--rw group-address -> ../config/group-address
        |   +--rw source-address -> ../config/source-address
        |   +--rw interface-name -> ../config/interface-name
        |   +--rw config
        |     | +--rw group-address? inet:ipv4-address
        |     | +--rw interface-name? string
        |     | +--rw source-address? inet:ipv4-address
        |     +--ro state
        |       +--ro group-address? inet:ipv4-address
        |       +--ro interface-name? string
        |       +--ro source-address? inet:ipv4-address
      +--rw asm-groups

```

```

+--rw asm-group* [group-address interface-name]
  +--rw group-address   -> ../config/group-address
  +--rw interface-name  -> ../config/interface-name
  +--rw config
    | +--rw group-address?  inet:ipv4-address
    | +--rw interface-name? string
  +--ro state
    +--ro group-address?  inet:ipv4-address
    +--ro interface-name? string

```

rpcs:

```

+---x igmp-snooping-clear-group-interface {feature-list:HAVE_L2MRIBD}?
| +---w input
|   +---w group-address   inet:ipv4-address
|   +---w interface-name  string
+---x igmp-snooping-clear-interface {feature-list:HAVE_L2MRIBD}?
| +---w input
|   +---w interface-name  string
+---x igmp-snooping-clear-all {feature-list:HAVE_L2MRIBD}?
+---x igmp-snooping-clear-group {feature-list:HAVE_L2MRIBD}?
| +---w input
|   +---w group-address   inet:ipv4-address
+---x igmp-snooping-terminal-debug-on {feature-list:HAVE_L2MRIBD}?
| +---w input
|   +---w terminal-debug-options  ipi-igmp-snooping-types:igmp_snoop_debug_options_t
+---x igmp-snooping-terminal-debug-off {feature-list:HAVE_L2MRIBD}?
  +---w input
    +---w terminal-debug-options  ipi-igmp-snooping-types:igmp_snoop_debug_options_t

```

ipi-igmp

```

+--rw igmp
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name      -> ../config/vrf-name

```

```

|   +--rw config
|   |   +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|   |   +--rw disable-ssm-map?  empty
|   |   +--rw disable-tos-check? empty
|   |   +--ro state
|   |   |   +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|   |   |   +--ro disable-ssm-map?  empty
|   |   |   +--ro disable-tos-check? empty
|   |   +--rw group-membership-control
|   |   |   +--rw config
|   |   |   |   +--rw member-limit?      uint32
|   |   |   |   +--rw limit-exception-acl? string
|   |   |   |   +--ro state
|   |   |   |   |   +--ro member-limit?      uint32
|   |   |   |   |   +--ro limit-exception-acl? string
|   |   |   |   |   +--ro current-states-count? uint32
|   |   +--rw ssm
|   |   |   +--rw static-mappings
|   |   |   |   +--rw static-mapping* [group-ranges-acl source]
|   |   |   |   |   +--rw group-ranges-acl  -> ../config/group-ranges-acl
|   |   |   |   |   +--rw source            -> ../config/source
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw group-ranges-acl? string
|   |   |   |   |   |   +--rw source?      inet:ipv4-address
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro group-ranges-acl? string
|   |   |   |   |   |   +--ro source?      inet:ipv4-address
|   |   +--rw debug
|   |   |   +--rw config
|   |   |   |   +--rw options? ipi-igmp-types:igmp_debug_options_t
|   |   |   +--ro state
|   |   |   |   +--ro options? ipi-igmp-types:igmp_debug_options_t
|   |   |   |   +--ro terminal-debug-status? ipi-igmp-types:igmp_debug_options_t
+--rw interfaces
|   +--rw interface* [name]
|   |   +--rw name          -> ../config/name

```

```

|   +--rw config
|   |   +--rw name?          -> /ipi-interface:interfaces/interface/name
|   |   +--rw enabled?       empty
|   |   +--rw last-member-query-count?   uint8
|   |   +--rw last-member-query-interval? uint16
|   |   +--rw querier-timeout?   uint16
|   |   +--rw query-interval?    uint16
|   |   +--rw query-max-response-time?   uint8
|   |   +--rw startup-query-interval?   uint16
|   |   +--rw startup-query-count?   uint8
|   |   +--rw robustness-variable?   uint8
|   |   +--rw version?           uint8
|   |   +--rw require-router-alert-option? empty
|   |   +--rw allow-offlink-host?   empty
|   |   +--rw offlink-log-suppress?  empty
|   +--ro state
|   |   +--ro counters
|   |   |   +--ro v1-reports-received?  yang:counter32
|   |   |   +--ro v2-reports-received?  yang:counter32
|   |   |   +--ro v2-leaves-received?   yang:counter32
|   |   |   +--ro v3-reports-received?  yang:counter32
|   |   |   +--ro current-group-records? yang:counter32
|   |   +--ro internet-address?   inet:ipv4-address
|   |   +--ro oper-status?        ipi-igmp-types:igmp_if_oper_status_t
|   |   +--ro host-version?       uint8
|   |   +--ro is-querier?         boolean
|   |   +--ro querying-router?    inet:ipv4-address
|   |   +--ro group-membership-interval? uint32
|   |   +--ro name?              -> /ipi-interface:interfaces/interface/name
|   |   +--ro enabled?           empty
|   |   +--ro last-member-query-count?   uint8
|   |   +--ro last-member-query-interval? uint16
|   |   +--ro querier-timeout?   uint16
|   |   +--ro query-interval?    uint16
|   |   +--ro query-max-response-time?   uint8
|   |   +--ro startup-query-interval?   uint16

```

```

| | +--ro startup-query-count?      uint8
| | +--ro robustness-variable?      uint8
| | +--ro version?                  uint8
| | +--ro require-router-alert-option? empty
| | +--ro allow-offlink-host?       empty
| | +--ro offlink-log-suppress?     empty
| +--rw proxy
| | +--rw config
| | | +--rw enable-proxy-service?   empty
| | | +--rw mroute-proxy-interface? string
| | | +--rw unsolicited-report-interval? uint16
| | +--ro state
| |   +--ro enable-proxy-service?   empty
| |   +--ro mroute-proxy-interface? string
| |   +--ro unsolicited-report-interval? uint16
| |   +--ro oper-status?            ipi-igmp-types:igmp_proxy_if_oper_status_t
| +--rw group-membership-control
| | +--rw config
| | | +--rw access-group-name?      string
| | | +--rw immediate-leave-groups-list? string
| | | +--rw member-limit?           uint32
| | | +--rw limit-exception-acl?     string
| | +--ro state
| |   +--ro access-group-name?      string
| |   +--ro immediate-leave-groups-list? string
| |   +--ro member-limit?           uint32
| |   +--ro limit-exception-acl?     string
| +--rw asm-static-groups
| | +--rw asm-static-group* [group-address]
| |   +--rw group-address -> ../config/group-address
| |   +--rw config
| |     | +--rw group-address? inet:ipv4-address
| |     +--ro state
| |       +--ro group-address? inet:ipv4-address
| +--rw ssm-static-groups
| | +--rw ssm-static-group* [group-address source]

```

```

| | +--rw group-address -> ../config/group-address
| | +--rw source        -> ../config/source
| | +--rw config
| | | +--rw group-address? inet:ipv4-address
| | | +--rw source?       ipi-igmp-types:igmp_static_ssm_source_t
| | +--ro state
| |   +--ro group-address? inet:ipv4-address
| |   +--ro source?       ipi-igmp-types:igmp_static_ssm_source_t
| +--rw asm-join-groups
| | +--rw asm-join-group* [group-address]
| | +--rw group-address -> ../config/group-address
| | +--rw config
| | | +--rw group-address? inet:ipv4-address
| | +--ro state
| |   +--ro group-address? inet:ipv4-address
| +--rw ssm-join-groups
| | +--rw ssm-join-group* [group-address source]
| |   +--rw group-address -> ../config/group-address
| |   +--rw source        -> ../config/source
| |   +--rw config
| | | +--rw group-address? inet:ipv4-address
| | | +--rw source?       inet:ipv4-address
| | +--ro state
| |   +--ro group-address? inet:ipv4-address
| |   +--ro source?       inet:ipv4-address
+--ro group-membership-tree
+--ro igmp-instances
+--ro igmp-instance* [vrf-name]
+--ro vrf-name -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
+--ro interfaces
+--ro interface* [if-name]
+--ro if-name -> /ipi-interface:interfaces/interface/name
+--ro member-groups
| +--ro member-group* [group-address]
| +--ro group-address -> ../state/group-address
| +--ro state

```

```

| | +--ro group-address?  inet:ipv4-address
| | +--ro dynamic-remote?  empty
| | +--ro static-group?   empty
| | +--ro local?          empty
| | +--ro ssm-mapped?     empty
| | +--ro static-source?  empty
| | +--ro up-time?        string
| | +--ro group-mode?     ipi-igmp-types:igmp_ssm_group_mode_t
| | +--ro expiry?         string
| | +--ro last-reporter?  inet:ipv4-address
| +--ro include-sources
| | +--ro include-source* [source-address]
| |   +--ro source-address -> ../state/source-address
| |   +--ro state
| |     +--ro source-address?  inet:ipv4-address
| |     +--ro dynamic-remote?  empty
| |     +--ro static-source?  empty
| |     +--ro local?          empty
| |     +--ro ssm-mapped?     empty
| |     +--ro up-time?        string
| |     +--ro expiry?         string
| |     +--ro is-forwarded?   ipi-igmp-types:igmp_yes_no_t
| +--ro exclude-sources
| | +--ro exclude-source* [source-address]
| |   +--ro source-address -> ../state/source-address
| |   +--ro state
| |     +--ro source-address?  inet:ipv4-address
| |     +--ro dynamic-remote?  empty
| |     +--ro static-source?  empty
| |     +--ro local?          empty
| |     +--ro ssm-mapped?     empty
| |     +--ro up-time?        string
| |     +--ro expiry?         string
| |     +--ro is-forwarded?   ipi-igmp-types:igmp_yes_no_t
+--ro proxy-groups
  +--ro proxy-group* [group-address]

```

```

+--ro group-address  -> ../state/group-address
+--ro state
  +--ro group-address?   inet:ipv4-address
  +--ro proxy-interface? string
  +--ro group-mode?      ipi-igmp-types:igmp_ssm_group_mode_t
  +--ro state?           ipi-igmp-types:igmp_if_state_t
  +--ro membership-state? ipi-igmp-types:igmp_proxy_grp_membership_state_t
  +--ro multicast-sources* inet:ipv4-address

```

rpcs:

```

+---x igmp-terminal-debug-on {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?      string
|   +---w terminal-debug-options ipi-igmp-types:igmp_debug_options_t
+---x igmp-terminal-debug-off {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?      string
|   +---w terminal-debug-options ipi-igmp-types:igmp_debug_options_t
+---x igmp-clear-all-groups {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?      string
|   +---w clear-all     empty
+---x igmp-clear-group-on-interface {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?      string
|   +---w group-address  inet:ipv4-address
|   +---w if-name        string
+---x igmp-clear-all-groups-on-interface {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?      string
|   +---w if-name        string
+---x igmp-clear-group {feature-list:HAVE_MRIBD}?
  +---w input
    +---w vrf-name?      string
    +---w group-address  inet:ipv4-address

```

ipi-igp-te

```
+--rw igp-te
  +--rw interfaces
    +--rw interface* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name? -> /ipi-interface:interfaces/interface/name
        +--ro state
          | +--ro name? -> /ipi-interface:interfaces/interface/name
      +--rw uni-link
        +--rw config
          | +--rw delay?      uint32
          | +--rw delay-variation? uint32
          | +--rw loss-percentage? decimal64
          +--ro state
            | +--ro delay?      uint32
            | +--ro delay-variation? uint32
            | +--ro loss-percentage? decimal64
          +--rw twamp-loss-parameter {feature-list:HAVE_TWAMP}?
            | +--rw config
            | | +--rw loss-dynamic? empty
            | +--ro state
            | | +--ro loss-dynamic? empty
          +--rw irb-twamp-loss-parameter {feature-list:HAVE_TWAMP}?
            | +--rw config
            | | +--rw loss-dynamic? empty
            | +--ro state
            | | +--ro loss-dynamic? empty
          +--rw twamp-session-parameters {feature-list:HAVE_TWAMP}?
            | +--rw twamp-session-parameter* [reflector-ip]
            | | +--rw reflector-ip -> ../config/reflector-ip
            | | +--rw config
            | | | +--rw reflector-ip? cml-data-types:cml_hostname_t
            | | | +--rw reflector-port? ipi-twamp-types:twamp_udp_port_t
            | | | +--rw sender-ip?    cml-data-types:cml_hostname_t
```

```

| | | +--rw sender-port?    ipi-twamp-types:twamp_udp_port_t
| | | +--rw dscp?           string
| | +--ro state
| | | +--ro reflector-ip?   cml-data-types:cml_hostname_t
| | | +--ro reflector-port? ipi-twamp-types:twamp_udp_port_t
| | | +--ro sender-ip?      cml-data-types:cml_hostname_t
| | | +--ro sender-port?    ipi-twamp-types:twamp_udp_port_t
| | | +--ro dscp?           string
| | +--ro statistics
| |   +--ro state
| |     +--ro last-advertised-calculation-time?    yang:date-and-time
| |     +--ro last-advertised-minimum-delay?       uint64
| |     +--ro last-advertised-maximum-delay?       uint64
| |     +--ro last-advertised-average-delay?       uint64
| |     +--ro last-advertised-minimum-delay-variation? uint64
| |     +--ro last-advertised-maximum-delay-variation? uint64
| |     +--ro last-advertised-average-delay-variation? uint64
| |     +--ro last-advertised-packets-sent?        yang:counter64
| |     +--ro last-advertised-packets-received?    yang:counter64
| |     +--ro last-advertised-packets-timeout?     yang:counter64
| |     +--ro last-advertised-packet-loss?         decimal64
| |     +--ro last-calculated-calculation-time?    yang:date-and-time
| |     +--ro last-calculated-minimum-delay?       uint64
| |     +--ro last-calculated-maximum-delay?       uint64
| |     +--ro last-calculated-average-delay?       uint64
| |     +--ro last-calculated-minimum-delay-variation? uint64
| |     +--ro last-calculated-maximum-delay-variation? uint64
| |     +--ro last-calculated-average-delay-variation? uint64
| |     +--ro last-calculated-packets-sent?        yang:counter64
| |     +--ro last-calculated-packets-received?    yang:counter64
| |     +--ro last-calculated-packets-timeout?     yang:counter64
| |     +--ro last-calculated-packet-loss?         decimal64
| +--rw irb-twamp-session-parameter* [reflector-ip]
|   +--rw reflector-ip  -> ../config/reflector-ip
|   +--rw config
|     | +--rw reflector-ip?  cml-data-types:cml_hostname_t

```

```

| | +--rw reflector-port? ipi-twamp-types:twamp_udp_port_t
| | +--rw sender-ip?      cml-data-types:cml_hostname_t
| | +--rw sender-port?    ipi-twamp-types:twamp_udp_port_t
| | +--rw dscp?           string
| +--ro state
| | +--ro reflector-ip?    cml-data-types:cml_hostname_t
| | +--ro reflector-port? ipi-twamp-types:twamp_udp_port_t
| | +--ro sender-ip?      cml-data-types:cml_hostname_t
| | +--ro sender-port?    ipi-twamp-types:twamp_udp_port_t
| | +--ro dscp?           string
| +--ro statistics
|   +--ro state
|     +--ro last-advertised-calculation-time?    yang:date-and-time
|     +--ro last-advertised-minimum-delay?       uint64
|     +--ro last-advertised-maximum-delay?       uint64
|     +--ro last-advertised-average-delay?       uint64
|     +--ro last-advertised-minimum-delay-variation? uint64
|     +--ro last-advertised-maximum-delay-variation? uint64
|     +--ro last-advertised-average-delay-variation? uint64
|     +--ro last-advertised-packets-sent?        yang:counter64
|     +--ro last-advertised-packets-received?    yang:counter64
|     +--ro last-advertised-packets-timeout?     yang:counter64
|     +--ro last-advertised-packet-loss?         decimal64
|     +--ro last-calculated-calculation-time?    yang:date-and-time
|     +--ro last-calculated-minimum-delay?       uint64
|     +--ro last-calculated-maximum-delay?       uint64
|     +--ro last-calculated-average-delay?       uint64
|     +--ro last-calculated-minimum-delay-variation? uint64
|     +--ro last-calculated-maximum-delay-variation? uint64
|     +--ro last-calculated-average-delay-variation? uint64
|     +--ro last-calculated-packets-sent?        yang:counter64
|     +--ro last-calculated-packets-received?    yang:counter64
|     +--ro last-calculated-packets-timeout?     yang:counter64
|     +--ro last-calculated-packet-loss?         decimal64
+--rw delay-threshold
| +--rw a-bit* [a-bit-min a-bit-max]

```

```

|   +--rw a-bit-min   -> ../config/a-bit-min
|   +--rw a-bit-max   -> ../config/a-bit-max
|   +--rw config
|   |   +--rw a-bit-min?  uint32
|   |   +--rw a-bit-max?  uint32
|   +--ro state
|       +--ro a-bit-min?  uint32
|       +--ro a-bit-max?  uint32
+--rw min-max-delay
| +--rw delay* [min-value max-value]
|   +--rw min-value   -> ../config/min-value
|   +--rw max-value   -> ../config/max-value
|   +--rw config
|   |   +--rw min-value?  uint32
|   |   +--rw max-value?  uint32
|   +--ro state
|       +--ro min-value?  uint32
|       +--ro max-value?  uint32
+--rw loss
| +--rw threshold* [loss-a-bit-min loss-a-bit-max]
|   +--rw loss-a-bit-min   -> ../config/loss-a-bit-min
|   +--rw loss-a-bit-max   -> ../config/loss-a-bit-max
|   +--rw config
|   |   +--rw loss-a-bit-min?  decimal64
|   |   +--rw loss-a-bit-max?  decimal64
|   +--ro state
|       +--ro loss-a-bit-min?  decimal64
|       +--ro loss-a-bit-max?  decimal64
+--rw min-max-delay-threshold
+--rw a-bit* [a-bit-min-range-minimum a-bit-min-range-maximum a-bit-max-range-minimum a-bit-max-range-
maximum]
    +--rw a-bit-min-range-minimum   -> ../config/a-bit-min-range-minimum
    +--rw a-bit-min-range-maximum   -> ../config/a-bit-min-range-maximum
    +--rw a-bit-max-range-minimum   -> ../config/a-bit-max-range-minimum
    +--rw a-bit-max-range-maximum   -> ../config/a-bit-max-range-maximum
    +--rw config
    |   +--rw a-bit-min-range-minimum?  uint32

```

```

| +--rw a-bit-min-range-maximum? uint32
| +--rw a-bit-max-range-minimum? uint32
| +--rw a-bit-max-range-maximum? uint32
+--ro state
  +--ro a-bit-min-range-minimum? uint32
  +--ro a-bit-min-range-maximum? uint32
  +--ro a-bit-max-range-minimum? uint32
  +--ro a-bit-max-range-maximum? uint32

```

rpcs:

```

+---x twamp-clear-measurement-intf {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w interface-name string
+---x twamp-clear-measurement-all {feature-list:HAVE_TWAMP}?

```

notifications:

```

+---n delay-measurement-status {feature-list:HAVE_TWAMP}?
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message? string
+---n twamp-delay-measurement-threshold-crossed {feature-list:HAVE_TWAMP}?
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro reflector-ip? cml-data-types:cml_hostname_t
| +--ro name? string
| +--ro last-calculated-average-delay? uint64
+---n twamp-delay-measurement-loss-changed {feature-list:HAVE_TWAMP}?
  +--ro severity? cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro reflector-ip? cml-data-types:cml_hostname_t
  +--ro name? string
  +--ro last-advertised-packet-loss? decimal64

```

ipi-interface

```

+--rw interfaces

```

```

+--rw interface* [name]
  +--rw name          -> ../config/name
  +--rw config
    | +--rw name?      string
    | +--rw enable-switchport?    empty
    | +--rw vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    | +--rw vr-name?      string {feature-list:HAVE_VR}?
    | +--rw type?          ipi-if-types:if_iana_if_type_t
    | +--rw mtu?            uint32
    | +--rw dot1ad-ether-type?    string {feature-list:HAVE_VLAN_STACK,feature-list:NOT_HAVE_SWFWDR}?
    | +--rw domain-fastflush-config?    empty {feature-list:HAVE_DNX}?
    | +--rw protected-port?      ipi-if-types:if_protected_port_type_t {feature-list:HAVE_DUNE}?
    | +--rw bridge-domain-forward?    empty {feature-list:HAVE_DUNE}?
    | +--rw phy-link-training?      ipi-if-types:if_port_phy_settings_t
    | +--rw phy-dfe?                ipi-if-types:if_port_phy_settings_t
    | +--rw phy-unreliable-los?      ipi-if-types:if_port_phy_settings_t
    | +--rw description?            cml-data-types:cml_line_t
    | +--rw shutdown?              empty
  +--ro state
    | +--ro name?                  string
    | +--ro enable-switchport?      empty
    | +--ro vrf-name?              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    | +--ro vr-name?              string {feature-list:HAVE_VR}?
    | +--ro type?                  ipi-if-types:if_iana_if_type_t
    | +--ro mtu?                    uint32
    | +--ro dot1ad-ether-type?      string {feature-list:HAVE_VLAN_STACK,feature-list:NOT_HAVE_SWFWDR}?
    | +--ro domain-fastflush-config?    empty {feature-list:HAVE_DNX}?
    | +--ro protected-port?          ipi-if-types:if_protected_port_type_t {feature-list:HAVE_DUNE}?
    | +--ro bridge-domain-forward?    empty {feature-list:HAVE_DUNE}?
    | +--ro phy-link-training?        ipi-if-types:if_port_phy_settings_t
    | +--ro phy-dfe?                  ipi-if-types:if_port_phy_settings_t
    | +--ro phy-unreliable-los?        ipi-if-types:if_port_phy_settings_t
    | +--ro description?              cml-data-types:cml_line_t
    | +--ro shutdown?                empty
    | +--ro ifindex?                uint32

```

```

    | +--ro admin-status?      ipi-if-types:if_interface_admin_status_t
    | +--ro oper-status?      ipi-if-types:if_interface_oper_status_t
    | +--ro last-change?      yang:timeticks
    | +--ro logical?          boolean
    | +--ro counters
    |   +--ro in-octets?       yang:counter64
    |   +--ro in-pkts?        yang:counter64
    |   +--ro in-unicast-pkts? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro in-broadcast-pkts? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro in-multicast-pkts? yang:counter64
    |   +--ro in-discards?     yang:counter64
    |   +--ro in-errors?       yang:counter64
    |   +--ro in-fcs-errors?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro out-octets?      yang:counter64
    |   +--ro out-pkts?        yang:counter64
    |   +--ro out-unicast-pkts? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro out-broadcast-pkts? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro out-multicast-pkts? yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |   +--ro out-discards?     yang:counter64
    |   +--ro out-errors?       yang:counter64
    |   +--ro last-clear?      ipi-if-types:if_last_clear_time_t
+--rw interface-loopback
+--rw config!
| +--rw if-loopback      ipi-if-types:if_loopback_dir_type_t
| +--rw if-loopback-level ipi-if-types:if_loopback_type_t
+--ro state
    +--ro if-loopback      ipi-if-types:if_loopback_dir_type_t
    +--ro if-loopback-level ipi-if-types:if_loopback_type_t

rpcs:
+---x clear-interface-counters
+---w input

```

```
+---w name    string
```

```
notifications:
```

```
+---n interface-link-state-change-notification
  +--ro severity?    cml-data-types:cml_notif_severity_t
  +--ro eventClass?  cml-data-types:cml_notif_class_t
  +--ro name?        string
  +--ro oper-status? ipi-if-types:if_interface_oper_status_t
```

ipi-ip-sla

```
+--rw ip-sla
  +--rw processes
    | +--rw process* [identifier]
    |   +--rw identifier      -> ../config/identifier
    |   +--rw config
    |     | +--rw identifier?  uint16
    |     +--ro state
    |       | +--ro identifier? uint16
    |       +--ro ip-sla-statistics
    |         | +--ro state
    |         |   +--ro destination?      string
    |         |   +--ro start-time?       yang:date-and-time
    |         |   +--ro elapsed-time?     uint64
    |         |   +--ro packets-sent?     uint64
    |         |   +--ro packets-received? uint64
    |         |   +--ro packets-lost?     decimal64
    |         |   +--ro invalid-tests?    uint32
    |         |   +--ro minimum-round-trip-delay? uint64
    |         |   +--ro maximum-round-trip-delay? uint64
    |         |   +--ro average-round-trip-delay? uint64
    |         |   +--ro return-code?      string
    |         |   +--ro last-run-time?    yang:date-and-time
    |         +--rw icmp-echo-processes
    |           +--rw icmp-echo-process* [host]
    |             +--rw host      -> ../config/host
```



```

|   +--rw config
|   |   +--rw host?          ip_sla_hostname_t
|   |   +--rw source-interface? string
|   |   +--rw source-ip?     inet:ip-address
|   |   +--rw frequency?     uint8
|   |   +--rw timeout?       uint16
|   |   +--rw threshold?     uint16
|   +--ro state
|   |   +--ro host?          ip_sla_hostname_t
|   |   +--ro source-interface? string
|   |   +--ro source-ip?     inet:ip-address
|   |   +--ro frequency?     uint8
|   |   +--ro timeout?       uint16
|   |   +--ro threshold?     uint16
+--rw scheduled-processes
  +--rw scheduled-process* [scheduled-pid time-range-name]
    +--rw scheduled-pid    -> ../config/scheduled-pid
    +--rw time-range-name  -> ../config/time-range-name
    +--rw config
    |   +--rw scheduled-pid? -> /ip-sla/processes/process/config/identifier
    |   +--rw time-range-name? string
    |   +--rw vrf-name?     string
    +--ro state
    |   +--ro scheduled-pid? -> /ip-sla/processes/process/config/identifier
    |   +--ro time-range-name? string
    |   +--ro vrf-name?     string

```

rpcs:

```

+---x ip-sla-clear-statistics {feature-list:HAVE_IPSLA,feature-list:HAVE_BFD}?
  +---w input
    +---w identifier  uint16

```

notifications:

```

+---n icmp-echo-threshold {feature-list:HAVE_IPSLA}?
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t

```

```

| +--ro host?      ip_sla_hostname_t
| +--ro identifier? uint16
| +--ro threshold? uint16
+---n icmp-echo-timeout {feature-list:HAVE_IPSLA}?
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro host?      ip_sla_hostname_t
| +--ro identifier? uint16
| +--ro timeout?   uint16
+---n icmp-echo-disconnect {feature-list:HAVE_IPSLA}?
  +--ro severity?  cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro identifier? uint16

```

ipi-ipsec

```

+--rw ipsec {feature-list:HAVE_IPSEC}?
  +--rw transform-sets
  | +--rw transform-set* [transform-set-name]
  |   +--rw transform-set-name  -> ../config/transform-set-name
  |   +--rw config
  |     | +--rw transform-set-name? string
  |     | +--rw transform-set-mode? ipi-ipsec-types:ipsec_ts_mode_t
  |     +--ro state
  |       | +--ro transform-set-name? string
  |       | +--ro transform-set-mode? ipi-ipsec-types:ipsec_ts_mode_t
  |       | +--ro transform-set-protocol? ipi-ipsec-types:ipsec_ts_protocol_t
  |       +--rw ah-auth
  |         | +--rw config
  |         | | +--rw ah-authentication? ipi-ipsec-types:ipsec_ah_authentication_t
  |         | | +--ro state
  |         | |   +--ro ah-authentication? ipi-ipsec-types:ipsec_ah_authentication_t
  |         +--rw esp-auth
  |           +--rw config!

```

```

|   | +--rw esp-authentication  ipi-ipsec-types:ipsec_esp_authentication_t
|   | +--rw esp-encryption      ipi-ipsec-types:ipsec_esp_encryption_t
|   +--ro state
|       +--ro esp-authentication  ipi-ipsec-types:ipsec_esp_authentication_t
|       +--ro esp-encryption      ipi-ipsec-types:ipsec_esp_encryption_t
+--rw crypto-maps
  +--rw crypto-map* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?   string
      | +--rw sa-type ipi-ipsec-types:ipsec_sa_type_t
      +--ro state
      | +--ro name?   string
      | +--ro sa-type ipi-ipsec-types:ipsec_sa_type_t
    +--rw sessions
      +--rw session* [sequence-id]
        +--rw sequence-id  -> ../config/sequence-id
        +--rw config
          | +--rw sequence-id? uint16
          +--ro state
          | +--ro sequence-id? uint16
          +--rw transform-sets
            | +--rw transform-set* [transform-set-name]
            |   +--rw transform-set-name  -> ../config/transform-set-name
            |   +--rw config
            |     | +--rw transform-set-name? -> /ipsec/transform-sets/transform-set/transform-set-name
            |     +--ro state
            |       +--ro transform-set-name? -> /ipsec/transform-sets/transform-set/transform-set-name
          +--rw peer-addresses
            | +--rw peer-address* [peer]
            |   +--rw peer      -> ../config/peer
            |   +--rw config
            |     | +--rw peer?  inet:ip-address
            |     | +--rw spi    ipi-ipsec-types:ipsec_peer_spi_t
            |     +--ro state
            |       +--ro peer?  inet:ip-address

```

```

|   +--ro spi      ipi-ipsec-types:ipsec_peer_spi_t
+--rw session-keys
  +--rw session-key* [direction protocol security-parameter-index]
    +--rw direction      -> ../config/direction
    +--rw protocol        -> ../config/protocol
    +--rw security-parameter-index -> ../config/security-parameter-index
    +--rw config
      | +--rw direction?      ipi-ipsec-types:ipsec_session_key_direction_t
      | +--rw protocol?      ipi-ipsec-types:ipsec_session_key_protocol_t
      | +--rw security-parameter-index? uint16
      | +--rw cipher          string
      | +--rw authentication-key string
    +--ro state
      +--ro direction?      ipi-ipsec-types:ipsec_session_key_direction_t
      +--ro protocol?      ipi-ipsec-types:ipsec_session_key_protocol_t
      +--ro security-parameter-index? uint16
      +--ro cipher          string
      +--ro authentication-key string

```

ipi-ipv6-router-adv

```

+--rw router-advertisement {feature-list:HAVE_RTADV}?
  +--rw interfaces
    +--rw interface* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name?      -> /ipi-interface:interfaces/interface/name
        | +--rw suppress-ra? empty
        | +--rw suppress-ra-mtu? empty
        | +--rw managed-flag? empty
        | +--rw other-config-flag? empty
        | +--rw current-hop-limit? uint8
        | +--rw link-mtu?    uint32
        | +--rw dad-attempts? uint16
      +--ro state
        | +--ro name?      -> /ipi-interface:interfaces/interface/name

```

```

| +--ro suppress-ra?      empty
| +--ro suppress-ra-mtu?  empty
| +--ro managed-flag?     empty
| +--ro other-config-flag? empty
| +--ro current-hop-limit? uint8
| +--ro link-mtu?         uint32
| +--ro dad-attempts?     uint16
+--rw ipv6-prefixes
| +--rw config
| | +--rw off-link?        empty
| | +--rw no-auto-configuration? empty
| | +--rw valid-lifetime?  uint32
| | +--rw preferred-lifetime? uint32
| +--ro state
| | +--ro off-link?        empty
| | +--ro no-auto-configuration? empty
| | +--ro valid-lifetime?  uint32
| | +--ro preferred-lifetime? uint32
| +--rw ipv6-prefix* [ipv6-address]
|   +--rw ipv6-address  -> ../config/ipv6-address
|   +--rw config
|   | +--rw ipv6-address?      cml-data-types:cml_ipv6_prefix_t
|   | +--rw valid-lifetime?    uint32
|   | +--rw preferred-lifetime? uint32
|   | +--rw off-link?         empty
|   | +--rw no-auto-configuration? empty
|   +--ro state
|     +--ro ipv6-address?      cml-data-types:cml_ipv6_prefix_t
|     +--ro valid-lifetime?    uint32
|     +--ro preferred-lifetime? uint32
|     +--ro off-link?         empty
|     +--ro no-auto-configuration? empty
+--rw timers
  +--rw config
  | +--rw reachable-time?    uint32
  | +--rw retransmission-time? uint32

```

```

| +--rw router-lifetime?    uint16
+--ro state
| +--ro reachable-time?    uint32
| +--ro retransmission-time? uint32
| +--ro router-lifetime?    uint16
| +--ro random-interval?    uint32
| +--ro time-remaining?     uint32
+--rw ra-interval
  +--rw config!
    | +--rw max-ra-interval  uint32
    | +--rw min-ra-interval  uint32
  +--ro state
    +--ro max-ra-interval    uint32
    +--ro min-ra-interval    uint32

```

ipi-isis

```

+--rw isis
  +--rw isis-instances
    | +--rw isis-instance* [instance]
    |   +--rw instance          -> ../config/instance
    |   +--ro ipv4-route* [destination-prefix]
    |     | +--ro destination-prefix -> ../state/destination-prefix
    |     | +--ro nexthop* [nexthop-ip]
    |     | | +--ro nexthop-ip -> ../state/nexthop-ip
    |     | | +--ro state
    |     | | +--ro nexthop-ip?      inet:ipv4-address

```

```

| | | +--ro outgoing-interface?  string
| | | +--ro redistribute-map-tag? uint32
| | | +--ro source-identifier?   string
| | | +--ro out-label?           uint32 {feature-list:HAVE_ISIS_SR}?
| | +--ro state
| |   +--ro destination-prefix?   cml-data-types:cml_ipv4_addr_prefix_t
| |   +--ro destination-path-metric?  uint32
| |   +--ro destination-path-type?   string
| |   +--ro is-destination-path-type-external? boolean
| |   +--ro tunnel-lsp-metric?       uint32 {feature-list:HAVE_MPLS}?
| |   +--ro tunnel-lsp-tunnel-identifier?  uint32 {feature-list:HAVE_MPLS}?
| |   +--ro tunnel-lsp-tunnel-endpoint?  inet:ipv4-address {feature-list:HAVE_MPLS}?
| |   +--ro ilm-id?                 uint32 {feature-list:HAVE_ISIS_SR}?
| |   +--ro ftn-id?                 uint32 {feature-list:HAVE_ISIS_SR}?
| |   +--ro in-label?               uint32 {feature-list:HAVE_ISIS_SR}?
| +--ro ipv6-route* [destination-prefix]
| | +--ro destination-prefix  -> ../state/destination-prefix
| | +--ro nexthop* [nexthop-ip]
| | | +--ro nexthop-ip  -> ../state/nexthop-ip
| | | +--ro state
| | |   +--ro nexthop-ip?      inet:ipv6-address
| | |   +--ro outgoing-interface?  string
| | |   +--ro redistribute-map-tag? uint32
| | +--ro state
| |   +--ro destination-prefix?   cml-data-types:cml_ipv6_prefix_t
| |   +--ro destination-path-metric?  uint32
| |   +--ro destination-path-type?   string
| |   +--ro is-destination-path-type-external? boolean
| +--rw config
| | +--rw instance?              string
| | +--rw distance?              uint8
| | +--rw vrf-name               -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
| | | +--rw dynamic-host-name?    ipi-isis-types:isis_dynamic_hostanme_t
| | | +--rw disable-adjacency-check?  empty
| | | +--rw disable-asla-usage-flex-algo?  empty
| | | +--rw enable-asla-strict-flex-algo?  empty

```

```

| | +--rw enable-asla-usage-all-apps?      empty
| | +--rw enable-flex-algo-routing?         empty
| | +--rw enable-flex-algo-readvertise?     empty
| | +--rw disable-flex-algo-cspf?          empty
| | +--rw enable-flex-algo-adjacency-sid?   empty
| | +--rw enable-flex-algo-strict-adjacency-sid? empty
| | +--rw enable-flex-algo-backup-adjacency-sid? empty
| | +--rw enable-flex-algo-qos-policy?      empty
| | +--rw enable-flex-algo-bgp-ls?         empty
| | +--rw enable-backup-srlg-disjoint-path? empty
| | +--rw enable-backup-srlg-disjoint-forced? empty
| | +--rw ignore-lsp-errors?               empty
| | +--rw lfa-hold-timer?                  int32 {feature-list:HAVE_ISIS_LFA}?
| | +--rw level-capability?                ipi-isis-types:isis_is_type_t
| | +--rw authentication-send-only?        ipi-isis-types:isis_auth_level_type_t
| | +--rw incremental-spf-levels?          ipi-isis-types:isis_is_type_t
| | +--rw priority-tag?                    uint32 {feature-list:HAVE_WIDE_METRIC}?
| | +--rw enable-cspf-capability?          empty {feature-list:HAVE_ISIS_CSPF}?
| | +--rw disable-gr-capability?           empty {feature-list:HAVE_RESTART}?
| | +--rw enable-bfd-all-interfaces?      empty {feature-list:HAVE_BFD}?
| | +--rw maximum-area-addresses?         uint8
| | +--rw distribute-bgp-ls?              ipi-isis-types:isis_bgp_ls_type_t {feature-list:HAVE_BGP_LS}?
| | +--rw context-name?                   string {feature-list:HAVE_SNMP}?
| +--ro state
| | +--ro counters
| | | +--ro system-level-1-adjacency-count? uint32
| | | +--ro system-level-2-adjacency-count? uint32
| | | +--ro system-total-adjacency-count?   uint32
| | +--ro next-global-update-level-1?       uint32
| | +--ro next-global-update-level-2?       uint32
| | +--ro overload?                        ipi-isis-types:isis_overload_state_t
| | +--ro instance?                       string
| | +--ro distance?                       uint8
| | +--ro vrf-name                        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
| | +--ro dynamic-host-name?              ipi-isis-types:isis_dynamic_hostname_t
| | +--ro disable-adjacency-check?         empty

```

```

| | +--ro disable-asla-usage-flex-algo?      empty
| | +--ro enable-asla-strict-flex-algo?      empty
| | +--ro enable-asla-usage-all-apps?       empty
| | +--ro enable-flex-algo-routing?          empty
| | +--ro enable-flex-algo-readvertise?      empty
| | +--ro disable-flex-algo-cspf?            empty
| | +--ro enable-flex-algo-adjacency-sid?     empty
| | +--ro enable-flex-algo-strict-adjacency-sid? empty
| | +--ro enable-flex-algo-backup-adjacency-sid? empty
| | +--ro enable-flex-algo-qos-policy?        empty
| | +--ro enable-flex-algo-bgp-ls?           empty
| | +--ro enable-backup-srlg-disjoint-path?   empty
| | +--ro enable-backup-srlg-disjoint-forced? empty
| | +--ro ignore-lsp-errors?                  empty
| | +--ro lfa-hold-timer?                     int32 {feature-list:HAVE_ISIS_LFA}?
| | +--ro level-capability?                   ipi-isis-types:isis_is_type_t
| | +--ro authentication-send-only?           ipi-isis-types:isis_auth_level_type_t
| | +--ro incremental-spf-levels?             ipi-isis-types:isis_is_type_t
| | +--ro priority-tag?                       uint32 {feature-list:HAVE_WIDE_METRIC}?
| | +--ro enable-cspf-capability?             empty {feature-list:HAVE_ISIS_CSPF}?
| | +--ro disable-gr-capability?              empty {feature-list:HAVE_RESTART}?
| | +--ro enable-bfd-all-interfaces?         empty {feature-list:HAVE_BFD}?
| | +--ro maximum-area-addresses?             uint8
| | +--ro distribute-bgp-ls?                  ipi-isis-types:isis_bgp_ls_type_t {feature-list:HAVE_BGP_LS}?
| | +--ro context-name?                      string {feature-list:HAVE_SNMP}?
| +--ro vrf
| | +--ro igp-shortcut-lsp* [index]
| |   +--ro index  -> ../state/index
| |   +--ro state
| |     +--ro index?      uint32
| |     +--ro metric?     uint16
| |     +--ro tunnel-id?   uint32
| |     +--ro tunnel-endpoint? string
| |     +--ro lock?        uint16
| |     +--ro status?      ipi-isis-types:isis_igp_shortcut_lsp_status_t
| +--rw partial-route-computations

```

```
| | +--rw partial-route-computation* [minimum-delay maximum-delay]
| |   +--rw minimum-delay  -> ../config/minimum-delay
| |   +--rw maximum-delay  -> ../config/maximum-delay
| |   +--rw config
| |     | +--rw minimum-delay?  uint32
| |     | +--rw maximum-delay?  uint32
| |     +--ro state
| |       +--ro minimum-delay?  uint32
| |       +--ro maximum-delay?  uint32
| +--rw area-authentication
| | +--rw config!
| | | +--rw area-password      string
| | | +--rw sequence-number-packet?  ipi-isis-types:isis_snp_t
| | +--ro state
| |   +--ro area-password      string
| |   +--ro sequence-number-packet?  ipi-isis-types:isis_snp_t
| +--rw network-entity-title
| | +--rw config
| | | +--rw net*  string
| | +--ro state
| |   +--ro net*  string
| +--rw domain-authentication
| | +--rw config!
| | | +--rw domain-password  string
| | | +--rw domain-snp?     ipi-isis-types:isis_snp_t
| | +--ro state
| |   +--ro domain-password  string
| |   +--ro domain-snp?     ipi-isis-types:isis_snp_t
| +--rw metric {feature-list:HAVE_WIDE_METRIC}?
| | +--rw config
| | | +--rw style?          ipi-isis-types:isis_metric_style_t {feature-list:HAVE_WIDE_METRIC}?
| | | +--rw level-number?  ipi-isis-types:isis_level3_t {feature-list:HAVE_WIDE_METRIC}?
| | +--ro state
| |   +--ro style?          ipi-isis-types:isis_metric_style_t {feature-list:HAVE_WIDE_METRIC}?
| |   +--ro level-number?  ipi-isis-types:isis_level3_t {feature-list:HAVE_WIDE_METRIC}?
| +--rw manual-area-addresses
```

```

| | +--ro state
| |   +--ro address*  string
| +--rw receive-area-addresses
| | +--ro state
| |   +--ro address*  string
| +--rw timers
| | +--rw config
| | | +--rw lsp-refresh-interval?  uint16
| | | +--rw lsp-lifetime-interval? uint16
| | +--ro state
| |   +--ro lsp-refresh-interval?  uint16
| |   +--ro lsp-lifetime-interval? uint16
| +--rw traffic-engineering
| | +--rw config
| | | +--rw ipv4-router-id?  inet:ipv4-address {feature-list:HAVE_ISIS_TE}?
| | | +--rw ipv6-router-id?  inet:ipv6-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| | +--ro state
| |   +--ro ipv4-router-id?  inet:ipv4-address {feature-list:HAVE_ISIS_TE}?
| |   +--ro ipv6-router-id?  inet:ipv6-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| +--rw address-family-ipv6
| | +--rw level-1-into-2-redistributes
| | | +--rw redistribute-level-1-into-2* [enable]
| | |   +--rw enable  -> ../config/enable
| | |   +--rw config
| | | | +--rw enable?    empty
| | | | +--rw level-1-acl? string
| | | +--ro state
| | |   +--ro enable?    empty
| | |   +--ro level-1-acl? string
| | +--rw level-2-into-1-redistributes
| | | +--rw redistribute-level-2-into-1* [enable]
| | |   +--rw enable  -> ../config/enable
| | |   +--rw config
| | | | +--rw enable?    empty
| | | | +--rw level-2-acl? string
| | | +--ro state

```

```
| | |   +--ro enable?      empty
| | |   +--ro level-2-acl? string
| | +--rw default-route-informations
| | | +--rw default-route-information* [originate]
| | |   +--rw originate   -> ../config/originate
| | |   +--rw config
| | | | +--rw originate?   ipi-isis-types:isis_origin_type_t
| | | | +--rw route-map-name? string
| | |   +--ro state
| | |   +--ro originate?   ipi-isis-types:isis_origin_type_t
| | |   +--ro route-map-name? string
| | +--rw config!
| | | +--rw afi-name          ipi-isis-types:isis_address_ipv6_t
| | | +--rw administrative-distance? uint32
| | | +--rw disable-adjacency-check? empty
| | +--ro state
| | | +--ro afi-name          ipi-isis-types:isis_address_ipv6_t
| | | +--ro administrative-distance? uint32
| | | +--ro disable-adjacency-check? empty
| | +--rw redistributions
| | | +--rw redistribute* [ipv6-protocol-type]
| | |   +--rw ipv6-protocol-type -> ../config/ipv6-protocol-type
| | |   +--rw config
| | | | +--rw ipv6-protocol-type? ipi-isis-types:isis_redistribute_t
| | | | +--rw ipv6-level?         ipi-isis-types:isis_is_type3_t
| | | | +--rw ipv6-metric-value?  uint32
| | | | +--rw ipv6-metric-type?   ipi-isis-types:isis_metric_t
| | | | +--rw ipv6-route-map?     string
| | |   +--ro state
| | |   +--ro ipv6-protocol-type? ipi-isis-types:isis_redistribute_t
| | |   +--ro ipv6-level?         ipi-isis-types:isis_is_type3_t
| | |   +--ro ipv6-metric-value?  uint32
| | |   +--ro ipv6-metric-type?   ipi-isis-types:isis_metric_t
| | |   +--ro ipv6-route-map?     string
| | +--rw summary-prefixes
| | | +--rw summary-prefix* [prefix]
```

```

| | | +--rw prefix -> ../config/prefix
| | | +--rw config
| | | | +--rw prefix? cml-data-types:cml_ipv6_prefix_t
| | | | +--rw level ipi-isis-types:isis_summary_level_t
| | | | +--rw metric? uint8
| | | +--ro state
| | |   +--ro prefix? cml-data-types:cml_ipv6_prefix_t
| | |   +--ro level ipi-isis-types:isis_summary_level_t
| | |   +--ro metric? uint8
| | +--rw multi-topologies
| | | +--rw multi-topology* [level] {feature-list:HAVE_MULTI_TOPOLOGY}?
| | | +--rw level -> ../config/level
| | | +--rw config
| | | | +--rw level? ipi-isis-types:isis_multi_topology_level_type_t
| | | +--ro state
| | |   +--ro level? ipi-isis-types:isis_multi_topology_level_type_t
| | +--rw isis-srv6 {feature-list:HAVE_SRV6}?
| | | +--rw config!
| | | | +--rw isisSRv6enable empty
| | | | +--ro state
| | | | +--ro isisSRv6enable empty
| | | +--rw locator-lists
| | | +--rw locator-list* [isisSRv6LocatorName]
| | |   +--rw isisSRv6LocatorName -> ../config/isisSRv6LocatorName
| | |   +--rw config
| | | | +--rw isisSRv6LocatorName? string
| | | +--ro state
| | |   +--ro isisSRv6LocatorName? string
| | +--rw distances {feature-list:HAVE_IPV6}?
| | +--rw distance* [system-id]
| | +--rw system-id -> ../config/system-id
| | +--rw config
| | | +--rw system-id? string
| | | +--rw value uint8
| | | +--rw access-list-name? string
| | +--ro state

```

```

| |      +--ro system-id?      string
| |      +--ro value          uint8
| |      +--ro access-list-name? string
| +--rw distances
| | +--rw distance* [system-id]
| |   +--rw system-id  -> ../config/system-id
| |   +--rw config
| | | +--rw system-id?      string
| | | +--rw value          uint8
| | | +--rw access-list-name? string
| |   +--ro state
| |     +--ro system-id?      string
| |     +--ro value          uint8
| |     +--ro access-list-name? string
| +--rw lsp-over-load
| | +--rw config!
| | | +--rw enabled          empty
| | | +--rw suppress-type?   ipi-isis-types:isis_suppress_t
| | | +--rw set-bit-on-boot? ipi-isis-types:isis_onstartup_t
| |   +--ro state
| |     +--ro enabled          empty
| |     +--ro suppress-type?   ipi-isis-types:isis_suppress_t
| |     +--ro set-bit-on-boot? ipi-isis-types:isis_onstartup_t
| +--rw address-family-ipv4
| | +--ro state
| | | +--ro existence-state?   uint8
| | | +--ro redistribute-update? int32
| | | +--ro redistribute-timer-value? string
| |   +--rw level-1-into-2-redistributes
| | | +--rw redistribute-level-1-into-2* [enable]
| | |   +--rw enable  -> ../config/enable
| | |   +--rw config
| | | | +--rw enable?      empty
| | | | +--rw level-1-acl? string
| | |   +--ro state
| | |     +--ro enable?      empty

```

```

| | |   +--ro level-1-acl?  string
| | +--rw level-2-into-1-redistributes
| | |   +--rw redistribute-level-2-into-1* [enable]
| | |   +--rw enable   -> ../config/enable
| | |   +--rw config
| | | |   +--rw enable?    empty
| | | |   +--rw level-2-acl?  string
| | |   +--ro state
| | |   +--ro enable?    empty
| | |   +--ro level-2-acl?  string
| | +--rw default-route-informations
| | |   +--rw default-route-information* [originate]
| | |   +--rw originate   -> ../config/originate
| | |   +--rw config
| | | |   +--rw originate?    ipi-isis-types:isis_origin_type_t
| | | |   +--rw route-map-name?  string
| | |   +--ro state
| | |   +--ro originate?    ipi-isis-types:isis_origin_type_t
| | |   +--ro route-map-name?  string
| | +--rw redistributions
| | |   +--rw redistribute* [protocol-type]
| | |   +--rw protocol-type   -> ../config/protocol-type
| | |   +--rw config
| | | |   +--rw protocol-type? ipi-isis-types:isis_redistribute_t
| | | |   +--rw level?        ipi-isis-types:isis_is_type3_t
| | | |   +--rw metric-value? uint32
| | | |   +--rw metric-type?  ipi-isis-types:isis_metric_t
| | | |   +--rw route-map?    string
| | |   +--ro state
| | |   +--ro protocol-type? ipi-isis-types:isis_redistribute_t
| | |   +--ro level?        ipi-isis-types:isis_is_type3_t
| | |   +--ro metric-value? uint32
| | |   +--ro metric-type?  ipi-isis-types:isis_metric_t
| | |   +--ro route-map?    string
| | +--rw summary-addresses
| | |   +--rw summary-address* [prefix]

```

```

| | | +--rw prefix -> ../config/prefix
| | | +--rw config
| | | | +--rw prefix? cml-data-types:cml_ipv4_prefix_t
| | | | +--rw level ipi-isis-types:isis_summary_level_t
| | | | +--rw metric? uint8
| | | +--ro state
| | |   +--ro prefix? cml-data-types:cml_ipv4_prefix_t
| | |   +--ro level ipi-isis-types:isis_summary_level_t
| | |   +--ro metric? uint8
| | +--rw redistribute-isis-instances
| |   +--rw redistribute-isis-instance* [id]
| |     +--rw id -> ../config/id
| |     +--rw config
| |       | +--rw id? string
| |       | +--rw level? ipi-isis-types:isis_is_type3_t
| |       | +--rw metric-value? uint32
| |       | +--rw metric-type? ipi-isis-types:isis_metric_t
| |       | +--rw route-map? string
| |       +--ro state
| |         +--ro id? string
| |         +--ro level? ipi-isis-types:isis_is_type3_t
| |         +--ro metric-value? uint32
| |         +--ro metric-type? ipi-isis-types:isis_metric_t
| |         +--ro route-map? string
| +--rw passive-interfaces
| | +--rw config
| | | +--rw passive-interface-all? empty
| | | +--ro state
| | | | +--ro passive-interface-all? empty
| | | +--rw passive-interface* [name]
| | | | +--rw name -> ../config/name
| | | | +--rw config
| | | | | +--rw name? -> /ipi-interface:interfaces/interface/name
| | | | | +--ro state
| | | | |   +--ro name? -> /ipi-interface:interfaces/interface/name
| | +--rw disable-passive-interfaces

```



```

| | +--rw disable-passive-interface* [name]
| |   +--rw name    -> ../config/name
| |   +--rw config
| |     | +--rw name? -> /ipi-interface:interfaces/interface/name
| |     +--ro state
| |       +--ro name? -> /ipi-interface:interfaces/interface/name
| +--rw microloop-avoidances {feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
| | +--rw microloop-avoidance* [level-type]
| |   +--rw level-type  -> ../config/level-type
| |   +--rw config
| |     | +--rw hold-timer?  uint8
| |     | +--rw max-fib?    uint8
| |     | +--rw level-type?  ipi-isis-types:isis_level2_t
| |     | +--rw enable?     empty
| |     +--ro state
| |       +--ro hold-timer?  uint8
| |       +--ro max-fib?    uint8
| |       +--ro level-type?  ipi-isis-types:isis_level2_t
| |       +--ro enable?     empty
| |   +--rw microloop-avoidance-segment-routing {feature-list:HAVE_ISIS_SR,feature-
list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
| |     +--rw segment-routing* [level-type]
| |     +--rw level-type  -> ../config/level-type
| |     +--rw config
| |       | +--rw level-type?  ipi-isis-types:isis_level2_t
| |       +--ro state
| |         | +--ro level-type?  ipi-isis-types:isis_level2_t
| |         +--rw protocols {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
| |           +--rw protocol* [protocol]
| |             +--rw protocol  -> ../config/protocol
| |             +--rw config
| |               | +--rw protocol?  ipi-isis-types:isis_level_proto_t
| |               | +--rw fib-delay?  uint32
| |               +--ro state
| |                 +--ro protocol?  ipi-isis-types:isis_level_proto_t
| |                 +--ro fib-delay?  uint32
| +--rw mpls-traffic-engg

```

```

| | +--rw config
| | | +--rw enable-level-1? empty {feature-list:HAVE_ISIS_TE}?
| | | +--rw enable-level-2? empty {feature-list:HAVE_ISIS_TE}?
| | +--ro state
| |   +--ro enable-level-1? empty {feature-list:HAVE_ISIS_TE}?
| |   +--ro enable-level-2? empty {feature-list:HAVE_ISIS_TE}?
| +--ro extended-admin-groups
| | +--ro extended-admin-group* [name id]
| |   +--ro name -> ../state/name
| |   +--ro id -> ../state/id
| |   +--ro state
| |     +--ro name? string
| |     +--ro id? uint16
| +--rw flexalgos
| | +--rw flexalgo* [algo-number]
| |   +--rw algo-number -> ../config/algo-number
| |   +--rw config!
| |     +--rw algo-number? uint8
| |     +--rw metric-type? ipi-isis-types:isis_fad_metric_type_t
| |     +--rw calculation-type? ipi-isis-types:isis_fad_calculation_type_t
| |     +--rw priority? uint8
| |     +--rw exclude-minimum-bandwidth? string
| |     +--rw exclude-maximum-delay? uint32
| |     +--rw enable-intf-group-mode-bw-calc? empty
| |     +--rw reference-bandwidth? string
| |     +--rw granularity-bandwidth? string
| |     +--rw disable-advertise-definition? empty
| |     +--rw disable-participate? empty
| |     +--rw enable-fast-reroute? empty
| |     +--rw enable-remote-lfa? empty
| |     +--rw enable-ti-lfa? empty
| |     +--rw enable-backup-srlg-disjoint-path? empty
| |     +--rw enable-backup-srlg-disjoint-forced? empty
| |     +--rw enable-prefix-metric-flag? empty
| |     +--rw fapm-metric? uint8
| |     +--rw maximum-ecmp-paths? uint8

```

```

| | | +--rw affinity-eag-exclude-any*      string
| | | +--rw affinity-eag-include-any*      string
| | | +--rw affinity-eag-include-all*      string
| | | +--rw affinity-eag-reverse-exclude-any*  string
| | | +--rw affinity-eag-reverse-include-any*  string
| | | +--rw affinity-eag-reverse-include-all*  string
| | | +--rw affinity-ag-exclude-any*      string
| | | +--rw affinity-ag-include-any*      string
| | | +--rw affinity-ag-include-all*      string
| | | +--rw affinity-ag-reverse-exclude-any*  string
| | | +--rw affinity-ag-reverse-include-any*  string
| | | +--rw affinity-ag-reverse-include-all*  string
| | | +--rw exclude-srlg*                  uint32 {feature-list:HAVE_SRLG}?
| | +--ro state
| | | +--ro algo-number?                    uint8
| | | +--ro metric-type?                    ipi-isis-types:isis_fad_metric_type_t
| | | +--ro calculation-type?                ipi-isis-types:isis_fad_calculation_type_t
| | | +--ro priority?                        uint8
| | | +--ro exclude-minimum-bandwidth?      string
| | | +--ro exclude-maximum-delay?          uint32
| | | +--ro enable-intf-group-mode-bw-calc?  empty
| | | +--ro reference-bandwidth?             string
| | | +--ro granularity-bandwidth?           string
| | | +--ro disable-advertise-definition?    empty
| | | +--ro disable-participate?             empty
| | | +--ro enable-fast-reroute?             empty
| | | +--ro enable-remote-lfa?               empty
| | | +--ro enable-ti-lfa?                   empty
| | | +--ro enable-backup-srlg-disjoint-path? empty
| | | +--ro enable-backup-srlg-disjoint-forced? empty
| | | +--ro enable-prefix-metric-flag?       empty
| | | +--ro fapm-metric?                     uint8
| | | +--ro maximum-ecmp-paths?              uint8
| | | +--ro affinity-eag-exclude-any*        string
| | | +--ro affinity-eag-include-any*        string
| | | +--ro affinity-eag-include-all*        string

```

```

| | | +--ro affinity-eag-reverse-exclude-any*  string
| | | +--ro affinity-eag-reverse-include-any*  string
| | | +--ro affinity-eag-reverse-include-all*  string
| | | +--ro affinity-ag-exclude-any*           string
| | | +--ro affinity-ag-include-any*           string
| | | +--ro affinity-ag-include-all*          string
| | | +--ro affinity-ag-reverse-exclude-any*   string
| | | +--ro affinity-ag-reverse-include-any*   string
| | | +--ro affinity-ag-reverse-include-all*  string
| | | +--ro exclude-srlg*                     uint32 {feature-list:HAVE_SRLG}?
| | +--rw flexalgo-bandwidth-thresholds
| | | +--rw flexalgo-bandwidth-threshold* [bandwidth-threshold]
| | |   +--rw bandwidth-threshold  -> ../config/bandwidth-threshold
| | |   +--rw config
| | |     | +--rw bandwidth-threshold?  string
| | |     | +--rw threshold-metric?    uint32
| | |     +--ro state
| | |       +--ro bandwidth-threshold?  string
| | |       +--ro threshold-metric?    uint32
| | +--rw flexalgo-microloop-avoidances {feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
| |   +--rw flexalgo-microloop-avoidance* [level-type]
| |     +--rw level-type  -> ../config/level-type
| |     +--rw config
| |       | +--rw level-type?  ipi-isis-types:isis_level2_t
| |       | +--rw enable?     empty
| |       +--ro state
| |         +--ro level-type?  ipi-isis-types:isis_level2_t
| |         +--ro enable?     empty
| +--ro level-runtime* [type]
| | +--ro type          -> ../state/type
| | +--ro lspdb* [lsp-identifier]
| | | +--ro lsp-identifier  -> ../state/lsp-identifier
| | | +--ro tlvs* [index]
| | | | +--ro index          -> ../state/index
| | | | +--ro is-neighbors* [system-id]
| | | | | +--ro system-id   -> ../state/system-id

```

```

|   |   |   | +--ro state
|   |   |   | +--ro system-id?  string
|   |   |   | +--ro metric?    uint32
|   |   |   | +--ro es-neighbors* [system-id]
|   |   |   | +--ro system-id   -> ../state/system-id
|   |   |   | +--ro state
|   |   |   | +--ro system-id?  string
|   |   |   | +--ro metric?    uint32
|   |   |   | +--ro ip-internal-reachability-information* [prefix]
|   |   |   | +--ro prefix     -> ../state/prefix
|   |   |   | +--ro state
|   |   |   | +--ro prefix?  cml-data-types:cml_line_t
|   |   |   | +--ro metric?  string
|   |   |   | +--ro ip-external-reachability-information* [prefix]
|   |   |   | +--ro prefix   -> ../state/prefix
|   |   |   | +--ro state
|   |   |   | +--ro prefix?  cml-data-types:cml_line_t
|   |   |   | +--ro metric?  string
|   |   |   | +--ro extended-is-reachability* [extended-is-index] {feature-list:HAVE_WIDE_METRIC}?
|   |   |   | +--ro extended-is-index   -> ../state/extended-is-index
|   |   |   | +--ro subtlv* [subtlv-index]
|   |   |   | +--ro subtlv-index          -> ../state/subtlv-index
|   |   |   | +--ro state
|   |   |   | +--ro subtlv-index?  uint16
|   |   |   | +--ro protocols-supported {feature-list:HAVE_PROTOCOL_TOPOLOGY}?
|   |   |   | +--ro state
|   |   |   | +--ro nlp-id*  ipi-isis-types:isis_level_proto_t
|   |   |   | +--ro admin-group-info {feature-list:HAVE_ISIS_TE}?
|   |   |   | +--ro state
|   |   |   | +--ro admin-group?  string
|   |   |   | +--ro mismatch-length?  uint16
|   |   |   | +--ro ipv4-interface-address {feature-list:HAVE_ISIS_TE}?
|   |   |   | +--ro state
|   |   |   | +--ro address?      inet:ipv4-address
|   |   |   | +--ro mismatch-length?  uint16
|   |   |   | +--ro ipv4-neighbor-address {feature-list:HAVE_ISIS_TE}?

```

```

| | | | | +--ro state
| | | | |   +--ro address?      inet:ipv4-address
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro ipv6-interface-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| | | | | +--ro state
| | | | |   +--ro address?      inet:ipv6-address
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro ipv6-neighbor-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| | | | | +--ro state
| | | | |   +--ro address?      inet:ipv6-address
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro max-link-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro bandwidth?     string
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro max-reserve-link-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro bandwidth?     ipi-isis-types:isis_ieee_float32_t
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro unreserved-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro bandwidth?     ipi-isis-types:isis_ieee_float32_t
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro te-default-metric {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro metric?        uint32
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro uni-link-delay {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro a-bit?         uint8
| | | | |   +--ro value?         uint32
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro min-max-uni-link-delay {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | |   +--ro a-bit?         uint8
| | | | |   +--ro min-value?     uint32

```

```

| | | | | +--ro max-value?      uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-delay-variation {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro variation?      uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-link-loss {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro a-bit?          uint8
| | | | | +--ro loss?          decimal64
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-residual-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro residual-bw?    ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-available-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro available-bw?   ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-utilized-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro utilized-bw?    ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro sr-te-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
| | | | | +--ro state
| | | | | +--ro value?          uint32
| | | | | +--ro flag?          cml-data-types:cml_line_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro sr-te-lan-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
| | | | | +--ro state
| | | | | +--ro system-id?      string
| | | | | +--ro value?          uint32
| | | | | +--ro flag?          cml-data-types:cml_line_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-ids {feature-list:HAVE_GMPLS}?
| | | | | +--ro state

```

```

| | | | | +--ro local?          uint32
| | | | | +--ro remote?        uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-protection-type {feature-list:HAVE_GMPLS}?
| | | | | +--ro state
| | | | | +--ro type?          string
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-switch-capability {feature-list:HAVE_GMPLS}?
| | | | | +--ro state
| | | | | +--ro type?          string
| | | | | +--ro encoding-type?   string
| | | | | +--ro max-lsp-bandwidth-at-priority? ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro min-lsp-bandwidth? ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro interface-mtu?   string
| | | | | +--ro sonet-sdh-indication? string
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro endx-sid {feature-list:HAVE_SRV6}?
| | | | | +--ro state
| | | | | +--ro endx-sid?      inet:ipv6-address
| | | | | +--ro endx-algo?    uint32
| | | | | +--ro endx-flags?   uint32
| | | | | +--ro endx-behavior? string
| | | | | +--ro endx-flavor?  uint32
| | | | | +--ro endx-weight?  uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro lan-endx-sid {feature-list:HAVE_SRV6}?
| | | | | +--ro state
| | | | | +--ro lan-endx-sid?  inet:ipv6-address
| | | | | +--ro lan-endx-behavior? string
| | | | | +--ro lan-endx-flavor? uint32
| | | | | +--ro lan-endx-sysid? string
| | | | | +--ro lan-endx-algo?  uint32
| | | | | +--ro lan-endx-weight? uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro state
| | | | | +--ro extended-is-index? uint32

```

```

| | | | +--ro system-id?      string
| | | | +--ro metric?        uint32
| | | | +--ro extended-ipv4-reachability* [ipv4-reach-index] {feature-list:HAVE_WIDE_METRIC}?
| | | | +--ro ipv4-reach-index  -> ../state/ipv4-reach-index
| | | | +--ro stlv* [stlv-reach-index]
| | | | | +--ro stlv-reach-index  -> ../state/stlv-reach-index
| | | | | +--ro state
| | | | | | +--ro stlv-reach-index?  uint16
| | | | | | +--ro admin-tag-info
| | | | | | +--ro state
| | | | | | | +--ro admin-tag?      uint32
| | | | | | | +--ro mismatch-length?  uint16
| | | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
| | | | | | | +--ro state
| | | | | | | +--ro value?          uint32
| | | | | | | +--ro rnpev-flags?    cml-data-types:cml_line_t
| | | | | | | +--ro mismatch-length?  uint16
| | | | | +--ro state
| | | | | +--ro ipv4-reach-index?  uint32
| | | | | +--ro prefix?            cml-data-types:cml_ipv4_addr_prefix_t
| | | | | +--ro metric?            uint32
| | | | +--ro ipv6-reachability* [ipv6-reach-index] {feature-list:HAVE_IPV6}?
| | | | +--ro ipv6-reach-index  -> ../state/ipv6-reach-index
| | | | +--ro stlv* [stlv-reach-index]
| | | | | +--ro stlv-reach-index  -> ../state/stlv-reach-index
| | | | | +--ro state
| | | | | | +--ro stlv-reach-index?  uint16
| | | | | | +--ro admin-tag-info
| | | | | | +--ro state
| | | | | | | +--ro admin-tag?      uint32
| | | | | | | +--ro mismatch-length?  uint16
| | | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
| | | | | | | +--ro state
| | | | | | | +--ro value?          uint32
| | | | | | | +--ro rnpev-flags?    cml-data-types:cml_line_t
| | | | | | | +--ro mismatch-length?  uint16

```

```

| | | | +--ro state
| | | | +--ro ipv6-reach-index? uint32
| | | | +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
| | | | +--ro metric?          cml-data-types:cml_line_t
| | | | +--ro up-down?         boolean
| | | +--ro multi-topology* [id] {feature-list:HAVE_MULTI_TOPOLOGY}?
| | | | +--ro id      -> ../state/id
| | | | +--ro state
| | | | +--ro id?  string
| | | +--ro multi-topology-is-reachability* [multi-is-index] {feature-list:HAVE_MULTI_TOPOLOGY}?
| | | | +--ro multi-is-index  -> ../state/multi-is-index
| | | | +--ro subtlv* [subtlv-index]
| | | | | +--ro subtlv-index      -> ../state/subtlv-index
| | | | | +--ro state
| | | | | | +--ro subtlv-index? uint16
| | | | | +--ro protocols-supported {feature-list:HAVE_PROTOCOL_TOPOLOGY}?
| | | | | | +--ro state
| | | | | | | +--ro nlp-id* ipi-isis-types:isis_level_proto_t
| | | | | | +--ro admin-group-info {feature-list:HAVE_ISIS_TE}?
| | | | | | | +--ro state
| | | | | | | +--ro admin-group?  string
| | | | | | | +--ro mismatch-length? uint16
| | | | | | +--ro ipv4-interface-address {feature-list:HAVE_ISIS_TE}?
| | | | | | | +--ro state
| | | | | | | +--ro address?      inet:ipv4-address
| | | | | | | +--ro mismatch-length? uint16
| | | | | | +--ro ipv4-neighbor-address {feature-list:HAVE_ISIS_TE}?
| | | | | | | +--ro state
| | | | | | | +--ro address?      inet:ipv4-address
| | | | | | | +--ro mismatch-length? uint16
| | | | | | +--ro ipv6-interface-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| | | | | | | +--ro state
| | | | | | | +--ro address?      inet:ipv6-address
| | | | | | | +--ro mismatch-length? uint16
| | | | | | +--ro ipv6-neighbor-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
| | | | | | | +--ro state

```

```

| | | | | +--ro address?      inet:ipv6-address
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro max-link-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro bandwidth?     string
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro max-reserve-link-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro bandwidth?     ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro unreserved-bandwidth {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro bandwidth?     ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro te-default-metric {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro metric?        uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-link-delay {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro a-bit?         uint8
| | | | | +--ro value?         uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro min-max-uni-link-delay {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro a-bit?         uint8
| | | | | +--ro min-value?     uint32
| | | | | +--ro max-value?     uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-delay-variation {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro variation?     uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-link-loss {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro a-bit?         uint8

```

```

| | | | | +--ro loss?          decimal64
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-residual-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro residual-bw?    ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-available-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro available-bw?   ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro uni-utilized-bw {feature-list:HAVE_ISIS_TE}?
| | | | | +--ro state
| | | | | +--ro utilized-bw?    ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro sr-te-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
| | | | | +--ro state
| | | | | +--ro value?          uint32
| | | | | +--ro flag?          cml-data-types:cml_line_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro sr-te-lan-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
| | | | | +--ro state
| | | | | +--ro system-id?      string
| | | | | +--ro value?          uint32
| | | | | +--ro flag?          cml-data-types:cml_line_t
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-ids {feature-list:HAVE_GMPLS}?
| | | | | +--ro state
| | | | | +--ro local?          uint32
| | | | | +--ro remote?         uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-protection-type {feature-list:HAVE_GMPLS}?
| | | | | +--ro state
| | | | | +--ro type?           string
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro link-switch-capability {feature-list:HAVE_GMPLS}?
| | | | | +--ro state

```

```
| | | | | +--ro type?          string
| | | | | +--ro encoding-type?    string
| | | | | +--ro max-lsp-bandwidth-at-priority? ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro min-lsp-bandwidth?    ipi-isis-types:isis_ieee_float32_t
| | | | | +--ro interface-mtu?      string
| | | | | +--ro sonet-sdh-indication?  string
| | | | | +--ro mismatch-length?    uint16
| | | | | +--ro endx-sid {feature-list:HAVE_SRV6}?
| | | | | +--ro state
| | | | | +--ro endx-sid?    inet:ipv6-address
| | | | | +--ro endx-algo?    uint32
| | | | | +--ro endx-flags?    uint32
| | | | | +--ro endx-behavior?  string
| | | | | +--ro endx-flavor?    uint32
| | | | | +--ro endx-weight?    uint32
| | | | | +--ro mismatch-length? uint16
| | | | | +--ro lan-endx-sid {feature-list:HAVE_SRV6}?
| | | | | +--ro state
| | | | | +--ro lan-endx-sid?    inet:ipv6-address
| | | | | +--ro lan-endx-behavior? string
| | | | | +--ro lan-endx-flavor?  uint32
| | | | | +--ro lan-endx-sysid?    string
| | | | | +--ro lan-endx-algo?    uint32
| | | | | +--ro lan-endx-weight?  uint32
| | | | | +--ro mismatch-length?  uint16
| | | | | +--ro state
| | | | | +--ro multi-is-index?  uint32
| | | | | +--ro system-id?      string
| | | | | +--ro metric?        uint32
| | | | | +--ro multi-topology-ipv6-reachability* [multi-ipv6-reach-index] {feature-
list:HAVE_MULTI_TOPOLOGY,feature-list:HAVE_IPV6}?
| | | | | +--ro multi-ipv6-reach-index  -> ../state/multi-ipv6-reach-index
| | | | | +--ro stlv* [stlv-reach-index]
| | | | | +--ro stlv-reach-index  -> ../state/stlv-reach-index
| | | | | +--ro state
| | | | | +--ro stlv-reach-index?  uint16
| | | | | +--ro admin-tag-info
```

```

| | | | | +--ro state
| | | | |   +--ro admin-tag?      uint32
| | | | |   +--ro mismatch-length? uint16
| | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
| | | | |   +--ro state
| | | | |     +--ro value?          uint32
| | | | |     +--ro rnpev-flags?    cml-data-types:cml_line_t
| | | | |     +--ro mismatch-length? uint16
| | | | | +--ro state
| | | | |   +--ro prefix?            string
| | | | |   +--ro metric?            string
| | | | |   +--ro up-down?           boolean
| | | | |   +--ro multi-ipv6-reach-index? uint16
| | | | |   +--ro id?                uint16
| | | | +--ro multi-topology-ipv4-reachability* [id] {feature-list:HAVE_MULTI_TOPOLOGY}?
| | | | +--ro id      -> ../state/id
| | | | +--ro stlv* [stlv-reach-index]
| | | | | +--ro stlv-reach-index  -> ../state/stlv-reach-index
| | | | | +--ro state
| | | | | | +--ro stlv-reach-index? uint16
| | | | | | +--ro admin-tag-info
| | | | | | +--ro state
| | | | | |   +--ro admin-tag?      uint32
| | | | | |   +--ro mismatch-length? uint16
| | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
| | | | | |   +--ro state
| | | | | |     +--ro value?          uint32
| | | | | |     +--ro rnpev-flags?    cml-data-types:cml_line_t
| | | | | |     +--ro mismatch-length? uint16
| | | | | +--ro state
| | | | |   +--ro prefix? inet:ipv4-address
| | | | |   +--ro metric?  uint32
| | | | |   +--ro id?      uint16
| | | | +--ro state
| | | | | +--ro index?  uint32
| | | | +--ro area-addresses

```

```

|   |   |   | +--ro state
|   |   |   | +--ro address*  string
|   |   |   | +--ro supported-protocol
|   |   |   | +--ro state
|   |   |   | +--ro nlp-id*  ipi-isis-types:isis_level_proto_t
|   |   |   | +--ro host-name
|   |   |   | +--ro state
|   |   |   | +--ro host-name?  string
|   |   |   | +--ro ipv4-interface-addresses
|   |   |   | +--ro state
|   |   |   | +--ro address?  inet:ipv4-address
|   |   |   | +--ro sid-label-binding {feature-list:HAVE_ISIS_SR}?
|   |   |   | +--ro state
|   |   |   | +--ro ipv4-address?  string
|   |   |   | +--ro ipv6-address?  string {feature-list:HAVE_IPV6}?
|   |   |   | +--ro fmsda-flags?  cml-data-types:cml_line_t
|   |   |   | +--ro rnpev-flags?  cml-data-types:cml_line_t
|   |   |   | +--ro start-identifier?  uint32
|   |   |   | +--ro algorithm?  uint32
|   |   |   | +--ro range?  uint32
|   |   |   | +--ro ipv4-te-router-id {feature-list:HAVE_ISIS_TE}?
|   |   |   | +--ro state
|   |   |   | +--ro unknown-tlv-type?  uint8
|   |   |   | +--ro length?  uint8
|   |   |   | +--ro router-id?  string
|   |   |   | +--ro ipv4-shared-risk-link-group {feature-list:HAVE_WIDE_METRIC,feature-list:HAVE_GMPLS}?
|   |   |   | +--ro state
|   |   |   | +--ro value?  string
|   |   |   | +--ro neighbor-address?  inet:ipv4-address
|   |   |   | +--ro local-address?  inet:ipv4-address
|   |   |   | +--ro system-id?  string
|   |   |   | +--ro ipv6-te-router-id {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|   |   |   | +--ro state
|   |   |   | +--ro unknown-tlv-type?  uint8
|   |   |   | +--ro unknown-tlv-length?  uint8
|   |   |   | +--ro router-id?  inet:ipv6-address

```

```

| | | | +--ro ipv6-interface-address {feature-list:HAVE_IPV6}?
| | | | +--ro state
| | | |   +--ro address?  inet:ipv6-address
| | | | +--ro router-capability {feature-list:HAVE_ISIS_SR_OR_HAVE_SRV6}?
| | | |   +--ro stlv* [stlv-index]
| | | |     +--ro stlv-index          -> ../state/stlv-index
| | | |     +--ro state
| | | |     +--ro stlv-index?  uint16
| | | |   +--ro segment-routing {feature-list:HAVE_ISIS_SR}?
| | | |     +--ro state
| | | |       +--ro range?      uint32
| | | |       +--ro sid?        uint32
| | | |       +--ro mismatch-length?  uint16
| | | |   +--ro segment-routing-algorithm {feature-list:HAVE_ISIS_SR}?
| | | |     +--ro state
| | | |       +--ro sr-algorithm-vector*  ipi-isis-types:isis_sr_algo_choice_t
| | | |       +--ro mismatch-length?  uint16
| | | |   +--ro segment-routing-mapping-server-preference {feature-list:HAVE_ISIS_SR}?
| | | |     +--ro state
| | | |       +--ro preference?    uint32
| | | |       +--ro mismatch-length?  uint16
| | | |   +--ro segment-routing-v6 {feature-list:HAVE_SRV6}?
| | | |     +--ro state
| | | |       +--ro srv6-flags?    uint32
| | | |       +--ro mismatch-length?  uint16
| | | |   +--ro max-sid-depth {feature-list:HAVE_SRV6}?
| | | |     +--ro state
| | | |       +--ro segments-left?  uint32
| | | |       +--ro end-pop?        uint32
| | | |       +--ro h-encaps?       uint32
| | | |       +--ro decap-sids?     uint32
| | | |       +--ro mismatch-length?  uint16
| | | |   +--ro state
| | | |   +--ro router-id?  inet:ipv4-address
| | | +--ro srv6-locator {feature-list:HAVE_SRV6}?
| | |   +--ro stlv* [stlv-index stlv-endpoint-function]

```



```

|   |   |   | +--ro stlv-index          -> ../state/stlv-index
|   |   |   | +--ro stlv-endpoint-function -> ../state/stlv-endpoint-function
|   |   |   | +--ro state
|   |   |   | | +--ro stlv-index?          uint16
|   |   |   | | +--ro stlv-endpoint-function? uint16
|   |   |   | +--ro srv6-end-sid {feature-list:HAVE_SRV6}?
|   |   |   |   +--ro state
|   |   |   |     +--ro end-sid?          inet:ipv6-address
|   |   |   |     +--ro sid-flags?        uint32
|   |   |   |     +--ro end-point-behavior? string
|   |   |   |     +--ro mismatch-length?   uint16
|   |   |   | +--ro state
|   |   |   |   +--ro locator-algorithm?   uint32
|   |   |   |   +--ro locator-flag?        uint32
|   |   |   |   +--ro locator-metric?      uint32
|   |   |   |   +--ro locator-prefix?      cml-data-types:cml_ipv6_prefix_t
|   |   |   | +--ro state
|   |   |   |   +--ro lsp-identifier?      string
|   |   |   |   +--ro is-self-lsp?         string
|   |   |   |   +--ro checksum?            string
|   |   |   |   +--ro remaining-lifetime?   uint16
|   |   |   |   +--ro flags?               uint8
|   |   |   |   +--ro partition-repair?     boolean
|   |   |   |   +--ro over-loaded?          boolean
|   |   |   |   +--ro sequence-number?      string
|   |   |   |   +--ro pdu-length?           uint32
|   |   |   | +--ro protocol-data* [index]
|   |   |   |   +--ro index      uint8
|   |   |   |   +--ro vertex* [destination-system-id]
|   |   |   |     +--ro destination-system-id -> ../state/destination-system-id
|   |   |   |     +--ro vertex-nexthop* [nexthop-interface nexthop-system-id]
|   |   |   |       +--ro nexthop-interface -> ../state/nexthop-interface
|   |   |   |       +--ro nexthop-system-id -> ../state/nexthop-system-id
|   |   |   |       +--ro state
|   |   |   |         +--ro nexthop-interface? string
|   |   |   |         +--ro nexthop-system-id? string

```

```

| | | | +--ro snpa-mac-address?  cml-data-types:cml_mac_addr_t
| | | +--ro state
| | |   +--ro metric?             uint32
| | |   +--ro destination-system-id? string
| | +--ro state
| |   +--ro counters
| |     +--ro authentication-type-fails?      uint32
| |     +--ro authentication-fails?          uint32
| |     +--ro corrupted-lsps?                uint32
| |     +--ro database-overloads?            uint32
| |     +--ro manual-address-drop-from-areas? uint32
| |     +--ro attempt-to-exceed-maximum-sequence-numbers? uint32
| |     +--ro sequence-number-skips?         uint32
| |     +--ro own-lsp-purges?                uint32
| |     +--ro lsp-sourced?                   uint32
| |     +--ro maximum-area-address-mismatches? uint32
| |     +--ro id-length-mismatch?            uint32
| |     +--ro partition-changes?             uint32
| |     +--ro spf-runs?                      uint32
| |     +--ro partial-route-calculation-count? uint32
| |     +--ro lan-designated-is-changes?     uint32
| |   +--ro type?      ipi-isis-types:isis_level2_t
| |   +--ro topology-type? uint8
| +--rw spf-levels
| | +--rw spf-level* [level]
| |   +--rw level      -> ../config/level
| |   +--rw spf-delays
| |     +--rw spf-delay* [spf-min-delay spf-max-delay]
| |     +--rw spf-min-delay  -> ../config/spf-min-delay
| |     +--rw spf-max-delay  -> ../config/spf-max-delay
| |     +--rw config
| |       | +--rw spf-min-delay? uint32
| |       | +--rw spf-max-delay? uint32
| |       +--ro state
| |         +--ro spf-min-delay? uint32
| |         +--ro spf-max-delay? uint32

```

```

| | +--rw config
| | | +--rw level? ipi-isis-types:isis_level3_t
| | | +--ro state
| | |   +--ro level? ipi-isis-types:isis_level3_t
| | +--rw levels
| | | +--rw level* [type]
| | |   +--rw type -> ../config/type
| | |   +--rw config
| | | | +--rw type? ipi-isis-types:isis_level3_t
| | | | +--rw wait-timer? uint16
| | | | +--rw restart-timer? uint16
| | | | +--rw lsp-max-wait-interval? uint32
| | | | +--rw lsp-mtu-size? uint16
| | | +--ro state
| | | | +--ro type? ipi-isis-types:isis_level3_t
| | | | +--ro wait-timer? uint16
| | | | +--ro restart-timer? uint16
| | | | +--ro lsp-max-wait-interval? uint32
| | | | +--ro lsp-mtu-size? uint16
| | | +--rw authentication
| | |   +--rw config!
| | | | +--rw key-chain? string
| | | | +--rw mode ipi-isis-types:isis_auth_mode_t
| | |   +--ro state
| | | | +--ro key-chain? string
| | | | +--ro mode ipi-isis-types:isis_auth_mode_t
| | +--ro cspf {feature-list:HAVE_ISIS_CSPF}?
| | | +--ro lsp* [setup-priority]
| | |   +--ro setup-priority -> ../state/setup-priority
| | |   +--ro lsp-status* [lsp-id]
| | | | +--ro lsp-id -> ../state/lsp-id
| | | | +--ro path-constraint* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index? uint32
| | | | | | +--ro ip-address? inet:ipv4-address

```

```

| | | | +--ro path-type?  ipi-isis-types:isis_cspf_path_type_t
| | | +--ro exclude-path-constraint* [ip-address]
| | | | +--ro ip-address  -> ../state/ip-address
| | | | +--ro state
| | | | +--ro ip-address?   inet:ipv4-address
| | | | +--ro interface-id? uint32 {feature-list:HAVE_GMPLS}?
| | | | +--ro type?        ipi-isis-types:isis_cspf_constraint_type_t
| | | +--ro path-computed-ero* [local-ip-address]
| | | | +--ro local-ip-address  -> ../state/local-ip-address
| | | | +--ro state
| | | | +--ro local-ip-address?  inet:ipv4-address
| | | | +--ro remote-ip-address? inet:ipv4-address
| | | +--ro state
| | |   +--ro lsp-id?          uint32
| | |   +--ro metric?          uint32
| | |   +--ro retry-interval?   uint16
| | |   +--ro retry-limit?     uint16
| | |   +--ro tunnel-egress-ip? inet:ipv4-address
| | |   +--ro tunnel-ingress-ip? inet:ipv4-address
| | |   +--ro extended-tunnel-id? inet:ipv4-address
| | |   +--ro lsp-name?        string
| | |   +--ro status?          string
| | |   +--ro client-id?       uint8
| | |   +--ro hop-limit?       int16
| | |   +--ro include-mask?     int8
| | |   +--ro include-all-mask? int8
| | |   +--ro exclude-mask?     int8
| | |   +--ro hold-priority?    uint8
| | |   +--ro retry-count?      uint16
| | |   +--ro bandwidth?       string
| | |   +--ro trunk-id?         uint32
| | |   +--ro lsp-type?        ipi-isis-types:isis_cspf_lsp_type_t
| | |   +--ro lsp-reoptimize?   string
| | |   +--ro lsp-in-reop-list? string
| | |   +--ro lsp-reop-time?    string
| | |   +--ro next-reop-due-in? string

```

```

| | +--ro state
| |   +--ro setup-priority?  int8
| | +--ro ipv4-lfa-route* [destination-prefix]
| |   +--ro destination-prefix  -> ../state/destination-prefix
| |   +--ro route-nexthop* [primary-nexthop nexthop-type]
| |     +--ro primary-nexthop  -> ../state/primary-nexthop
| |     +--ro nexthop-type     -> ../state/nexthop-type
| |     +--ro state
| |       +--ro primary-nexthop?          inet:ipv4-address
| |       +--ro nexthop-type?             ipi-isis-types:isis_lfa_nexthop_type_t
| |       +--ro primary-nexthop-interface-name?  string
| |       +--ro remote-router-id?          inet:ipv4-address
| |       +--ro lfa-nexthop?              inet:ipv4-address
| |       +--ro lfa-nexthop-interface-name?  string
| |       +--ro lfa-path-metric?          uint32
| |       +--ro protection-provided?      cml-data-types:cml_line_t
| | +--ro state
| |   +--ro destination-prefix?  cml-data-types:cml_ipv4_addr_prefix_t
| |   +--ro destination-path-type?  string
| | +--ro ipv6-lfa-route* [destination-prefix]
| |   +--ro destination-prefix  -> ../state/destination-prefix
| |   +--ro route-nexthop* [primary-nexthop]
| |     +--ro primary-nexthop  -> ../state/primary-nexthop
| |     +--ro state
| |       +--ro primary-nexthop?          inet:ipv6-address
| |       +--ro primary-nexthop-interface-name?  string
| |       +--ro lfa-nexthop?              inet:ipv6-address
| |       +--ro lfa-nexthop-interface-name?  string
| |       +--ro lfa-path-metric?          uint32
| |       +--ro protection-provided?      string
| | +--ro state
| |   +--ro destination-prefix?  cml-data-types:cml_ipv6_prefix_t
| |   +--ro destination-path-type?  string
| +--rw fast-reroute-levels
| | +--rw fast-reroute* [level-type]
| |   +--rw level-type      -> ../config/level-type

```

```

| | +--rw config
| | | +--rw level-type?      ipi-isis-types:isis_level2_t
| | | +--rw remote-lfa-protocol* ipi-isis-types:isis_lfa_level_proto_t {feature-list:HAVE_LDPP,feature-
list:HAVE_ISIS_LFA}?
| | +--ro state
| | | +--ro level-type?      ipi-isis-types:isis_level2_t
| | | +--ro remote-lfa-protocol* ipi-isis-types:isis_lfa_level_proto_t {feature-list:HAVE_LDPP,feature-
list:HAVE_ISIS_LFA}?
| | +--rw route-maps
| | | +--rw route-map* [protocol] {feature-list:HAVE_ISIS_LFA}?
| | |   +--rw protocol -> ../config/protocol
| | |   +--rw config
| | |   | +--rw protocol?      ipi-isis-types:isis_lfa_level_proto_t
| | |   | +--rw name?          string
| | |   | +--rw enable-all-prefixes? ipi-isis-types:isis_frr_enum_t
| | |   +--ro state
| | |     +--ro protocol?      ipi-isis-types:isis_lfa_level_proto_t
| | |     +--ro name?          string
| | |     +--ro enable-all-prefixes? ipi-isis-types:isis_frr_enum_t
| | +--rw ti-lfas
| | | +--rw ti-lfa* [protocol] {feature-list:HAVE_ISIS_TI_LFA}?
| | |   +--rw protocol -> ../config/protocol
| | |   +--rw config
| | |   | +--rw protocol? ipi-isis-types:isis_lfa_level_proto_t
| | |   +--ro state
| | |     +--ro protocol? ipi-isis-types:isis_lfa_level_proto_t
| | +--rw protocols
| | | +--rw protocol* [lfa-protocol preference-value] {feature-list:HAVE_ISIS_LFA}?
| | |   +--rw lfa-protocol -> ../config/lfa-protocol
| | |   +--rw preference-value -> ../config/preference-value
| | |   +--rw config
| | |   | +--rw lfa-protocol? ipi-isis-types:isis_lfa_level_proto_t
| | |   | +--rw preference-value? ipi-isis-types:isis_frr_tie_break_val_t
| | |   | +--rw preference-index uint32
| | |   +--ro state
| | |     +--ro lfa-protocol? ipi-isis-types:isis_lfa_level_proto_t
| | |     +--ro preference-value? ipi-isis-types:isis_frr_tie_break_val_t

```

```
| | | +--ro preference-index  uint32
| | +--rw ipv4-tilfa-routes {feature-list:HAVE_ISIS_TI_LFA}?
| | | +--ro ipv4-tilfa-route* [destination-prefix]
| | | +--ro destination-prefix  -> ../state/destination-prefix
| | | +--ro state
| | | | +--ro destination-prefix?  inet:ipv4-address
| | | | +--ro path-type?           ipi-isis-types:isis_path_type_t
| | | | +--ro ftn-index?          uint32
| | | | +--ro ilm-index?          uint32
| | | +--ro nexthops
| | | | +--ro nexthop* [primary-nexthop]
| | | | +--ro primary-nexthop  -> ../state/primary-nexthop
| | | | +--ro state
| | | | | +--ro primary-nexthop?      inet:ipv4-address
| | | | | +--ro primary-outgoing-interface?  string
| | | | | +--ro protection-type?      ipi-isis-types:isis_tilfa_protection_type_t
| | | | | +--ro pq-node-router-id?    inet:ipv4-address
| | | | | +--ro p-node?                inet:ipv4-address
| | | | | +--ro q-node?                inet:ipv4-address
| | | | | +--ro pq-trunk-id?          uint32
| | | | | +--ro primary-outgoing-label?  uint32
| | | | | +--ro primary-incoming-label?  uint32
| | | | | +--ro backup-outgoing-label?  uint32
| | | | | +--ro backup-outgoing-interface?  string
| | | +--ro pq-trunks
| | | | +--ro pq-trunk* [trunk-id]
| | | | +--ro trunk-id  -> ../state/trunk-id
| | | | +--ro state
| | | | | +--ro trunk-id?      uint32
| | | | | +--ro trunk-name?   string
| | | | | +--ro nexthop?      inet:ipv4-address
| | | | | +--ro outgoing-label?  uint32
| | | | | +--ro ftn-index?      uint32
| | | | | +--ro reference-count?  uint32
| | +--rw tilfa-pq-nodes {feature-list:HAVE_ISIS_TI_LFA}?
| | +--rw circuit-levels
```

```

| |      +--ro circuit-level* [level]
| |      +--ro level      -> ../state/level
| |      +--ro state
| |      | +--ro level? ipi-isis-types:isis_level2_t
| |      +--ro vertices
| |      +--ro vertex* [destination-vertex]
| |      +--ro destination-vertex -> ../state/destination-vertex
| |      +--ro state
| |      | +--ro destination-vertex? string
| |      +--ro interfaces
| |      +--ro interface* [name]
| |      +--ro name      -> ../state/name
| |      +--ro state
| |      | +--ro name? string
| |      +--ro link-protection
| |      | +--ro state
| |      | +--ro pnodes*      string
| |      | +--ro qnodes*      string
| |      | +--ro pq-node?      string
| |      | +--ro p-node-disjoint? string
| |      | +--ro q-node-disjoint? string
| |      +--ro srlg-protection
| |      | +--ro state
| |      | +--ro pnodes*      string
| |      | +--ro qnodes*      string
| |      | +--ro pq-node?      string
| |      | +--ro p-node-disjoint? string
| |      | +--ro q-node-disjoint? string
| |      +--ro node-protection
| |      +--ro state
| |      +--ro pnodes*      string
| |      +--ro qnodes*      string
| |      +--ro pq-node?      string
| |      +--ro p-node-disjoint? string
| |      +--ro q-node-disjoint? string
| +--ro segment-routing-capability* [advertising-router-ip]

```

```

| | +--ro advertising-router-ip -> ../state/advertising-router-ip
| | +--ro range-info* [index]
| | | +--ro index -> ../state/index
| | | +--ro state
| | |   +--ro start? uint32
| | |   +--ro end?  uint32
| | |   +--ro index? uint32
| | +--ro srlb-range-info* [index]
| | | +--ro index -> ../state/index
| | | +--ro state
| | |   +--ro start? uint32
| | |   +--ro end?  uint32
| | |   +--ro index? uint32
| | +--ro state
| |   +--ro advertising-router-ip?  inet:ipv4-address
| |   +--ro sr-algorithm-vector*     ipi-isis-types:isis_sr_algo_choice_t
| |   +--ro mapping-server-preference? uint32
| |   +--ro total-sid-count?         uint32
| |   +--ro sid-range-list-count?    uint8
| +--ro segment-routing-mapping-server-ipv4* [type]
| | +--ro type -> ../state/type
| | +--ro ipv4-table* [prefix-length]
| | | +--ro prefix-length -> ../state/prefix-length
| | | +--ro entry* [index]
| | | | +--ro index -> ../state/index
| | | | +--ro state
| | | |   +--ro index?          uint32
| | | |   +--ro label-options?  uint8
| | | |   +--ro system-id?      string
| | | |   +--ro status?         string
| | | |   +--ro preference?     uint8
| | | |   +--ro attached?       string
| | | |   +--ro last-system-id-index? uint32
| | | |   +--ro last-prefix?     cml-data-types:cml_ip_prefix_addr_t
| | | |   +--ro prefix-range?    uint32
| | | |   +--ro entry-prefix?    cml-data-types:cml_ip_prefix_addr_t

```

```

| | | +--ro state
| | |   +--ro prefix-length?  uint32
| | | +--ro state
| | |   +--ro type?            ipi-isis-types:isis_srms_type_t
| | |   +--ro entry-count?     uint32
| | |   +--ro conflict-resolution-policy?  string
| | +--rw segment-routing
| |   +--rw config!
| |     +--rw enabled          empty {feature-list:HAVE_ISIS_SR}?
| |     +--rw advertise-local?  empty {feature-list:HAVE_ISIS_SR}?
| |     +--rw receive-disable?  empty {feature-list:HAVE_ISIS_SR}?
| |   +--ro state
| |     +--ro enabled          empty {feature-list:HAVE_ISIS_SR}?
| |     +--ro advertise-local?  empty {feature-list:HAVE_ISIS_SR}?
| |     +--ro receive-disable?  empty {feature-list:HAVE_ISIS_SR}?
| |   +--rw global-blocks
| |     +--rw global-block* [global-block-base global-block-range]
| |       +--rw global-block-base  -> ../config/global-block-base
| |       +--rw global-block-range -> ../config/global-block-range
| |       +--rw config
| |         +--rw global-block-base?  int32
| |         +--rw global-block-range? int32 {feature-list:HAVE_ISIS_SR}?
| |       +--ro state
| |         +--ro global-block-base?  int32
| |         +--ro global-block-range? int32 {feature-list:HAVE_ISIS_SR}?
| |   +--rw sr-capability-entropy {feature-list:HAVE_ISIS_SR}?
| |     +--rw config
| |       +--rw entropy-label?  empty
| |     +--ro state
| |       +--ro entropy-label?  empty
+--rw debug
+--rw config
| +--rw options?      ipi-isis-types:isis_debug_t
| +--rw enable-hello?  empty
| +--rw interface-hello*  string
| +--rw system-id-hello*  string

```

```

| | +--rw cspf?          ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
| +--ro state
|   +--ro options?      ipi-isis-types:isis_debug_t
|   +--ro enable-hello?  empty
|   +--ro interface-hello* string
|   +--ro system-id-hello* string
|   +--ro cspf?          ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
|   +--ro terminal-debug
|     +--ro terminal-debug-status?      ipi-isis-types:isis_debug_t
|     +--ro terminal-debug-status-hello? cml-data-types:cml_on_off_t
|     +--ro terminal-debug-status-interface-hello* string
|     +--ro terminal-debug-status-system-id-hello* string
|     +--ro terminal-debug-status-cspf?  ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
+--ro state
| +--ro host-name*      string
| +--ro lsp-identifier?  -> /isis/isis-instances/isis-instance/level-runtime/lspdb/state/lsp-identifier
| +--ro overload?       -> /isis/isis-instances/isis-instance/state/overload
| +--ro pdu-length?     -> /isis/isis-instances/isis-instance/level-runtime/lspdb/state/pdu-length
| +--ro raw-pdu?        string
| +--ro pdu-field-len?  uint8
| +--ro max-area-addresses? uint8
| +--ro protocol-version? uint8
| +--ro reason?         string
| +--ro protocols?      uint8
| +--ro error-offset?   uint32
| +--ro tlv-type?       uint8
| +--ro global-block-base? int32 {feature-list:HAVE_ISIS_SR}?
| +--ro global-block-range? int32 {feature-list:HAVE_ISIS_SR}?
| +--ro received-index?   uint32 {feature-list:HAVE_ISIS_SR}?
| +--ro routing-protocol? string {feature-list:HAVE_ISIS_SR}?
+--rw graceful-restart
| +--rw config
| | +--rw grace-period?      uint16
| | +--rw enable-helper-only? empty
| | +--rw suppress-adjacency? empty
| +--ro state

```

```

|  +--ro grace-period?      uint16
|  +--ro enable-helper-only? empty
|  +--ro suppress-adjacency? empty
+--rw interfaces
  +--rw interface* [name]
    +--rw name              -> ../config/name
    +--ro bandwidth-priority* [priority]
    |  +--ro priority  -> ../state/priority
    |  +--ro state
    |  |  +--ro priority?      uint8
    |  |  +--ro available-bandwidth? string
    |  +--ro neighbor-lan* [system-id]
    |  |  +--ro system-id      -> ../state/system-id
    |  |  +--ro adjacency* [level]
    |  |  |  +--ro level  -> ../state/level
    |  |  |  +--ro state
    |  |  |  |  +--ro level?      ipi-isis-types:isis_level_t
    |  |  |  |  +--ro adjacency-state? ipi-isis-types:isis_state_t
    |  |  |  |  +--ro adjacency-id?   uint32
    |  |  |  |  +--ro remaining-hold-time? string
    |  |  |  |  +--ro priority?      uint8
    |  |  +--ro state
    |  |  |  +--ro system-id?      string
    |  |  |  +--ro adjacency-type?   ipi-isis-types:isis_level_t
    |  |  |  +--ro adjacency-advertisement? ipi-isis-types:isis_nbr_adj_t
    |  |  +--ro neighbor-snpa?      string
    |  |  +--ro level-1-nlp-id*      ipi-isis-types:isis_level_proto_t
    |  |  +--ro level-2-nlp-id*      ipi-isis-types:isis_level_proto_t
    |  |  +--ro multi-topology-type? ipi-isis-types:isis_multi_topology_types_t
    |  |  +--ro up-time?             string
    |  |  +--ro adjacency-sid?       uint32 {feature-list:HAVE_ISIS_SR}?
    |  |  +--ro ilm-id?             uint32 {feature-list:HAVE_ISIS_SR}?
    |  |  +--ro bypass-trunk-id?     uint32 {feature-list:HAVE_ISIS_SR}?
    |  |  +--ro backup-ilm-id?       uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
    |  |  +--ro backup-ilm-msg-id?   uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
    |  |  +--ro p-router-id?        inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?

```

```

| | +--ro q-router-id?      inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro pq-router-id?    inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro neighbor-protocol?  ipi-isis-types:isis_neighbour_protocol_t
| | +--ro area-address*     string
| +--ro ipv4-addresses
| | +--ro state
| |   +--ro address*  inet:ipv4-address
| +--ro ipv6-addresses
| | +--ro state
| |   +--ro address*  inet:ipv6-address
+--ro level* [level-number]
| +--ro level-number      -> ../state/level-number
| +--ro state
| | +--ro level-number?    ipi-isis-types:isis_iflevel_t
| | +--ro next-hello-interval?  cml-data-types:cml_line_t
| | +--ro mtu?             uint32
| | +--ro circuit-id?      string
| | +--ro active-adjacency-count?  int32
| | +--ro csnp-interval?    cml-data-types:cml_line_t
| | +--ro adjacency-changes?  uint32
| | +--ro adjacency-number?   uint32
| | +--ro init-fails?        uint32
| | +--ro rejected-adjacency?  uint32
| | +--ro id-field-length-mismatches?  uint32
| | +--ro max-area-address-mismatches?  uint32
| | +--ro authentication-type-fails?  uint32
| | +--ro authentication-fails?      uint32
| | +--ro lan-dis-changes?           uint32
| +--ro isis-hellos
| | +--ro state
| |   +--ro received?  uint32
| |   +--ro sent?     uint32
| +--ro link-state-pdu
| | +--ro state
| |   +--ro received?  uint32
| |   +--ro sent?     uint32

```

```

| +--ro complete-sequence-number-pdu
| | +--ro state
| |   +--ro received?  uint32
| |   +--ro sent?      uint32
| +--ro partial-sequence-number-pdu
| | +--ro state
| |   +--ro received?  uint32
| |   +--ro sent?      uint32
| +--ro unknown
|   +--ro state
|     +--ro received?  uint32
|     +--ro sent?      uint32
+--rw config
| +--rw name?          -> /ipi-interface:interfaces/interface/name
| +--rw minimal?       ipi-isis-types:isis_auth_level_type_t
| +--rw send-only?     ipi-isis-types:isis_auth_level_type_t
| +--rw maximum-bandwidth-flex-algo?  string
| +--rw disable-asla-usage-flex-algo?  empty
+--ro state
| +--ro name?          -> /ipi-interface:interfaces/interface/name
| +--ro minimal?       ipi-isis-types:isis_auth_level_type_t
| +--ro send-only?     ipi-isis-types:isis_auth_level_type_t
| +--ro maximum-bandwidth-flex-algo?  string
| +--ro disable-asla-usage-flex-algo?  empty
| +--ro isis-tag?      string
| +--ro network-type?  string
| +--ro circuit-type?   ipi-isis-types:isis_circuit_type_t
| +--ro local-circuit-id?  string
| +--ro extended-circuit-id?  string
| +--ro local-snpa?       cml-data-types:cml_mac_addr_t
+--ro bandwidth
| +--ro state
|   +--ro value?        string {feature-list:HAVE_ISIS_TE}?
|   +--ro maximum-resverable?  string {feature-list:HAVE_ISIS_TE}?
+--ro p2p-circuit-counters
| +--ro state

```

```

| +--ro adjacency-changes?      uint32
| +--ro adjacency-number?      uint32
| +--ro init-fails?            uint32
| +--ro rejected-adjacency?    uint32
| +--ro id-field-length-mismatches?  uint32
| +--ro max-area-address-mismatches?  uint32
| +--ro authentication-type-fails?  uint32
| +--ro authentication-fails?    uint32
| +--ro lan-dis-changes?      uint32
+--rw connected-ipv4
| +--ro state
|   +--ro address*  cml-data-types:cml_ipv4_addr_prefix_t
+--rw connected-ipv6
| +--ro state
|   +--ro address*  cml-data-types:cml_ipv6_prefix_t
+--ro neighbor-P2P
| +--ro ipv4-addresses* [address]
| | +--ro address  -> ../state/address
| | +--ro state
| |   +--ro address*  inet:ipv4-address
| +--ro ipv6-addresses* [address]
| | +--ro address  -> ../state/address
| | +--ro state
| |   +--ro address*  inet:ipv6-address
| +--ro state
|   +--ro system-id?      string
|   +--ro circuit-id?     string
|   +--ro adjacency-state?  ipi-isis-types:isis_state_t
|   +--ro remaining-hold-time?  string
|   +--ro adjacency-type?    string
|   +--ro adjacency-advertisement?  ipi-isis-types:isis_nbr_adj_t
|   +--ro neighbor-snpa?     string
|   +--ro level-1-nlp-id*    ipi-isis-types:isis_level_proto_t
|   +--ro level-2-nlp-id*    ipi-isis-types:isis_level_proto_t
|   +--ro multi-topology-type?  ipi-isis-types:isis_multi_topology_types_t
|   +--ro up-time?          string

```

```

|  +--ro adjacency-sid?          uint32 {feature-list:HAVE_ISIS_SR}?
|  +--ro ilm-id?                 uint32 {feature-list:HAVE_ISIS_SR}?
|  +--ro bypass-trunk-id?        uint32 {feature-list:HAVE_ISIS_SR}?
|  +--ro backup-ilm-id?          uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|  +--ro backup-ilm-msg-id?      uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|  +--ro p-router-id?            inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|  +--ro q-router-id?            inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|  +--ro pq-router-id?           inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|  +--ro neighbor-protocol?      ipi-isis-types:isis_neighbour_protocol_t
|  +--ro area-address*           string
+--rw interface-parameters
| +--rw config
| | +--rw network-type?          ipi-isis-types:isis_network_t
| | +--rw circuit-type?          ipi-isis-types:isis_circuit_type_t
| | +--rw ipv4-instance-tag?      string
| | +--rw ipv6-instance-tag?      string {feature-list:HAVE_IPV6}?
| | +--rw lsp-interval?          uint32
| | +--rw retransmit-interval?    uint16
| | +--rw disable-padding?        empty
| | +--rw mesh-group-id?          ipi-isis-types:isis_mesh_type_t
| | +--rw delay-normalize-interval? uint32
| | +--rw delay-normalize-offset? uint32
| +--ro state
| | +--ro network-type?          ipi-isis-types:isis_network_t
| | +--ro circuit-type?          ipi-isis-types:isis_circuit_type_t
| | +--ro ipv4-instance-tag?      string
| | +--ro ipv6-instance-tag?      string {feature-list:HAVE_IPV6}?
| | +--ro lsp-interval?          uint32
| | +--ro retransmit-interval?    uint16
| | +--ro disable-padding?        empty
| | +--ro mesh-group-id?          ipi-isis-types:isis_mesh_type_t
| | +--ro delay-normalize-interval? uint32
| | +--ro delay-normalize-offset? uint32
| +--rw bfd {feature-list:HAVE_BFD}?
| | +--rw config
| | | +--rw enable?             empty

```

```

| | | +--rw disable? empty
| | +--ro state
| |   +--ro enable? empty
| |   +--ro disable? empty
| +--rw fast-re-route
| | +--rw config
| | | +--rw disable-level-1? empty {feature-list:HAVE_ISIS_LFA}?
| | | +--rw disable-level-2? empty {feature-list:HAVE_ISIS_LFA}?
| | +--ro state
| |   +--ro disable-level-1? empty {feature-list:HAVE_ISIS_LFA}?
| |   +--ro disable-level-2? empty {feature-list:HAVE_ISIS_LFA}?
| +--rw level-infos
|   +--rw level-info* [level]
|     +--rw level      -> ../config/level
|     +--rw config
|       | +--rw level?          ipi-isis-types:isis_level_t
|       | +--rw hello-interval? uint16
|       | +--rw hello-multiplier? uint8
|       | +--rw csnp-interval?  uint16
|       | +--rw priority?       uint8
|       | +--rw metric?         uint8
|       | +--rw password?      string
|       | +--rw tag?            uint32
|       | +--rw wide-metric?    uint32
|       | +--rw te-metric?      uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw restart-hello-interval? uint16
|       | +--rw te-metric-flex-algo-ipv4? uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw te-metric-flex-algo-ipv6? uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-ipv4?   uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-ipv6?   uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-flex-algo-ipv4? uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-flex-algo-ipv6? uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw te-minimum-delay?        uint32
|       | +--rw te-maximum-delay?        uint32
|       | +--rw te-minimum-delay-flex-algo? uint32
|       | +--rw te-maximum-delay-flex-algo? uint32

```

```

    |      | +--rw extended-admin-group-flex-algo*      -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_ISIS_TE}?
    |      | +--rw extended-admin-group-flex-algo-anomaly* -> /ipi-global-te:extended-admin-groups/extended-
admin-group/name {feature-list:HAVE_ISIS_TE}?
    |      | +--rw admin-group-flex-algo*                -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
    |      | +--rw admin-group-flex-algo-anomaly*        -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
    |      | +--rw shared-risk-link-group-flex-algo*      uint32 {feature-list:HAVE_SRLG}?
    |      +--ro state
    |      | +--ro level?                                ipi-isis-types:isis_level_t
    |      | +--ro hello-interval?                        uint16
    |      | +--ro hello-multiplier?                      uint8
    |      | +--ro csnp-interval?                         uint16
    |      | +--ro priority?                              uint8
    |      | +--ro metric?                                uint8
    |      | +--ro password?                              string
    |      | +--ro tag?                                   uint32
    |      | +--ro wide-metric?                           uint32
    |      | +--ro te-metric?                             uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro restart-hello-interval?                uint16
    |      | +--ro te-metric-flex-algo-ipv4?              uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro te-metric-flex-algo-ipv6?              uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro bandwidth-metric-ipv4?                 uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro bandwidth-metric-ipv6?                 uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro bandwidth-metric-flex-algo-ipv4?       uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro bandwidth-metric-flex-algo-ipv6?       uint32 {feature-list:HAVE_ISIS_TE}?
    |      | +--ro te-minimum-delay?                      uint32
    |      | +--ro te-maximum-delay?                      uint32
    |      | +--ro te-minimum-delay-flex-algo?            uint32
    |      | +--ro te-maximum-delay-flex-algo?            uint32
    |      | +--ro extended-admin-group-flex-algo*        -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_ISIS_TE}?
    |      | +--ro extended-admin-group-flex-algo-anomaly* -> /ipi-global-te:extended-admin-groups/extended-
admin-group/name {feature-list:HAVE_ISIS_TE}?
    |      | +--ro admin-group-flex-algo*                 -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
    |      | +--ro admin-group-flex-algo-anomaly*         -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?

```

```

|   | +--ro shared-risk-link-group-flex-algo*      uint32 {feature-list:HAVE_SRLG}?
|   +--rw authentication
|       +--rw config!
|           | +--rw mode      ipi-isis-types:isis_auth_mode_t
|           | +--rw key-chain? string
|           +--ro state
|               +--ro mode      ipi-isis-types:isis_auth_mode_t
|               +--ro key-chain? string
+--rw igp-ldp-sync {feature-list:HAVE_LDPD}?
    +--rw config!
    | +--rw level      ipi-isis-types:isis_level_igp_sync_t
    | +--rw hold-timer  uint32
    +--ro state
        +--ro level      ipi-isis-types:isis_level_igp_sync_t
        +--ro hold-timer  uint32
        +--ro interface-name? string

```

rpcs:

```

+---x isis-restart-graceful {feature-list:HAVE_RESTART}?
| +---w input
|   +---w grace-period?  uint16
+---x isis-clear-interface-counters {feature-list:HAVE_ISISD}?
| +---w input
|   +---w name?  string
+---x isis-clear-is-neighbors {feature-list:HAVE_ISISD}?
| +---w input
|   +---w system-id  string
+---x isis-clear-clns-neighbors {feature-list:HAVE_ISISD}?
+---x isis-clear-ip-route {feature-list:HAVE_ISISD}?
| +---w input
|   +---w instance?  string
|   +---w ipv4-route  ipi-isis-types:isis_route_t
+---x isis-clear-ipv6-route {feature-list:HAVE_ISISD}?
| +---w input
|   +---w instance?  string
|   +---w ipv6-route  ipi-isis-types:isis_route_t

```

```

+---x isis-process-clear {feature-list:HAVE_ISISD}?
| +---w input
|   +---w instance    string
+---x isis-clear-counters {feature-list:HAVE_ISISD}?
+---x isis-clear-te-global-counters {feature-list:HAVE_ISISD}?
| +---w input
|   +---w te-global-counter-options  ipi-isis-types:isis_te_global_counter_type_t
+---x isis-clear-adjacency-all {feature-list:HAVE_ISISD}?
| +---w input
|   +---w adjacency-vrf-name?  string
+---x isis-process-clear-adjacency-all {feature-list:HAVE_ISISD}?
| +---w input
|   +---w tag-name            string
|   +---w adjacency-vrf-name?  string
+---x isis-process-clear-adjacency-interface {feature-list:HAVE_ISISD}?
| +---w input
|   +---w tag-name            string
|   +---w tag-if-name?        string
|   +---w adjacency-vrf-name?  string
+---x isis-clear-adjacency-interface {feature-list:HAVE_ISISD}?
| +---w input
|   +---w adjacency-if-name?   string
|   +---w adjacency-vrf-name?  string
+---x isis-process-clear-adjacency-system-id {feature-list:HAVE_ISISD}?
| +---w input
|   +---w tag-name            string
|   +---w tag-system-id       ipi-isis-types:isis_systemid_t
|   +---w tag-vrf-name?       string
+---x isis-clear-adjacency-system-id {feature-list:HAVE_ISISD}?
| +---w input
|   +---w adjacency-system-id  ipi-isis-types:isis_systemid_t
|   +---w adjacency-vrf-name?  string
+---x isis-restart-snmp {feature-list:HAVE_SNMP}?
+---x isis-terminal-debug-all-on {feature-list:HAVE_ISISD}?
+---x isis-terminal-debug-all-off {feature-list:HAVE_ISISD}?
+---x isis-terminal-debug-on {feature-list:HAVE_ISISD}?

```

```

| +---w input
|   +---w terminal-debug-options   ipi-isis-types:isis_debug_t
+---x isis-debug-off {feature-list:HAVE_ISISD}?
| +---w input
|   +---w terminal-debug-options   ipi-isis-types:isis_debug_t
+---x isis-debug-hello-on {feature-list:HAVE_ISISD}?
+---x isis-debug-hello-off {feature-list:HAVE_ISISD}?
+---x isis-debug-interface-hello-on {feature-list:HAVE_ISISD}?
| +---w input
|   +---w interface   string
+---x isis-debug-interface-hello-off {feature-list:HAVE_ISISD}?
| +---w input
|   +---w interface   string
+---x isis-debug-system-id-hello-on {feature-list:HAVE_ISISD}?
| +---w input
|   +---w system-id   string
+---x isis-debug-system-id-hello-off {feature-list:HAVE_ISISD}?
| +---w input
|   +---w system-id   string
+---x isis-all-debug-off {feature-list:HAVE_ISISD}?
+---x isis-debug-cspf-on {feature-list:HAVE_ISIS_CSPF}?
| +---w input
|   +---w cspf-debug   ipi-isis-types:isis_cspf_debug_t
+---x isis-debug-cspf-off {feature-list:HAVE_ISIS_CSPF}?
    +---w input
        +---w cspf-debug   ipi-isis-types:isis_cspf_debug_t

```

notifications:

```

+---n isis-database-overload
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro overload?   ipi-isis-types:isis_overload_state_t
+---n isis-lsp-too-large
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string

```

```
| +--ro pdu-length?    uint32
+---n isis-corrupted-lsp-detected
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string
+---n isis-attempt-to-exceed-max-sequence
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string
+---n isis-id-len-mismatch
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro pdu-field-len? uint8
| +--ro raw-pdu?       string
+---n isis-max-area-addresses-mismatch
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro max-area-addresses? uint8
| +--ro raw-pdu?       string
+---n isis-own-lsp-purge
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string
+---n isis-sequence-number-skipped
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string
+---n isis-authentication-type-failure
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro raw-pdu?       string
+---n isis-authentication-failure
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro raw-pdu?       string
+---n isis-version-skew
```

```

| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro protocol-version? uint8
| +--ro raw-pdu?       string
+---n isis-area-mismatch
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro raw-pdu?       string
+---n isis-rejected-adjacency
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro raw-pdu?       string
| +--ro reason?        string
+---n isis-protocols-supported-mismatch
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro raw-pdu?       string
| +--ro protocols?     uint8
+---n isis-lsp-error-detected
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro lsp-identifier? string
| +--ro raw-pdu?       string
| +--ro error-offset?  uint32
| +--ro tlv-type?      uint8
+---n isis-segment-routing-index-out-of-range {feature-list:HAVE_ISIS_SR}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?     cml-data-types:cml_notif_class_t
  +--ro global-block-base? int32
  +--ro global-block-range? int32
  +--ro received-index?  uint32
  +--ro routing-protocol? string

```

ipi-k3s

```
+--rw k3s
```

```

+--rw config
| +--rw enable?  empty
+--ro state
  +--ro enable?  empty

```

ipi-keychain

```

+--rw key-chains
  +--rw key-chain* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?  string
      +--ro state
        | +--ro name?  string
      +--rw keys
        +--rw key-list* [key-id]
          +--rw key-id      -> ../config/key-id
          +--rw config
            | +--rw key-id?      uint32
            | +--rw (key-style)?
            |   +--:(key-string)
            |   | +--rw key-string?  string
            |   | +--:(hexadecimal)
            |   | +--rw encrypted?  keychain_hex_string_t
            +--ro state
              | +--ro key-id?      uint32
              | +--ro (key-style)?
              |   +--:(key-string)
              |   | +--ro key-string?  string
              |   | +--:(hexadecimal)
              |   | +--ro encrypted?  keychain_hex_string_t
            +--rw accept-lifetime
              | +--rw config
              | | +--rw start-date-time-for-accept?  keychain_date_time_t
              | | +--rw (end-time)?
              | |   +--:(end-time)

```

```
| | | +--rw end-date-time-for-accept?  keychain_date_time_t
| |   +--:(infinite)
| | | +--rw infinite-for-accept?      empty
| |   +--:(duration)
| |   +--rw duration-for-accept?      uint32
| +--ro state
|   +--ro start-date-time-for-accept?  keychain_date_time_t
|   +--ro (end-time)?
|     +--:(end-time)
|     | +--ro end-date-time-for-accept?  keychain_date_time_t
|     | +--:(infinite)
|     | +--ro infinite-for-accept?      empty
|     | +--:(duration)
|     | +--ro duration-for-accept?      uint32
+--rw send-lifetime
  +--rw config
  | +--rw start-date-time-for-send?    keychain_date_time_t
  | +--rw (end-time)?
  |   +--:(end-time)
  |   | +--rw end-date-time-for-send?  keychain_date_time_t
  |   | +--:(infinite)
  |   | +--rw infinite-for-send?      empty
  |   | +--:(duration)
  |   | +--rw duration-for-send?      uint32
  +--ro state
  | +--ro start-date-time-for-send?    keychain_date_time_t
  | +--ro (end-time)?
  |   +--:(end-time)
  |   | +--ro end-date-time-for-send?  keychain_date_time_t
  |   | +--:(infinite)
  |   | +--ro infinite-for-send?      empty
  |   | +--:(duration)
  |   | +--ro duration-for-send?      uint32
```

ipi-l2vpn-vpls

```

+--rw vpls
  +--rw attachment-circuit
    | +--rw service-template-mappings
    |   +--rw service-template-mapping* [interface-name vpls-name service-template-name]
    |     +--rw interface-name          -> ../config/interface-name
    |     +--rw vpls-name                -> ../config/vpls-name
    |     +--rw service-template-name    -> ../config/service-template-name
    |     +--rw config
    |       | +--rw interface-name?      -> /ipi-interface:interfaces/interface/name
    |       | +--rw service-template-name? -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-
template/config/name
    |       | +--rw vpls-name?           string
    |       | +--rw admin-status?        ipi-vpls-types:vpls_ac_admin_status_t
    |       | +--rw attachment-circuit-description? cml-data-types:cml_line_t
    |       | +--rw mac-learning?        ipi-vpls-types:vpls_mac_learning_t
    |       | +--rw split-horizon?       ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
    |       | +--rw static-mac-address*   cml-data-types:cml_mac_addr_t
    |     +--ro state
    |       | +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
    |       | +--ro service-template-name? -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-
template/config/name
    |       | +--ro vpls-name?           string
    |       | +--ro admin-status?        ipi-vpls-types:vpls_ac_admin_status_t
    |       | +--ro attachment-circuit-description? cml-data-types:cml_line_t
    |       | +--ro mac-learning?        ipi-vpls-types:vpls_mac_learning_t
    |       | +--ro split-horizon?       ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
    |       | +--ro static-mac-address*   cml-data-types:cml_mac_addr_t
    |     +--rw quality-of-service-profiles
    |       +--rw quality-of-service-profile* [profile-type profile-name] {feature-list:HAVE_QOS}?
    |         +--rw profile-type  -> ../config/profile-type
    |         +--rw profile-name  -> ../config/profile-name
    |         +--rw config
    |           | +--rw profile-type? ipi-vpls-types:vpls_qos_map_profile_type_t
    |           | +--rw profile-name? string
    |         +--ro state

```

```

|      +--ro profile-type?  ipi-vpls-types:vpls_qos_map_profile_type_t
|      +--ro profile-name?  string
+--rw static-forwarding
| +--rw vpls-entries
| | +--rw vpls-entry* [vpls-identifier peer-address]
| |   +--rw vpls-identifier  -> ../config/vpls-identifier
| |   +--rw peer-address     -> ../config/peer-address
| |   +--rw config
| | | +--rw vpls-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
| | | +--rw peer-address?     -> /ipi-network-instance:network-instances/network-instance/vpls-instance/vpls-
peers/vpls-peer/config/peer-address
| | | +--rw in-label         uint32
| | | +--rw out-label        uint32
| | | +--rw out-interface-name  string
| |   +--ro state
| |   +--ro vpls-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
| |   +--ro peer-address?     -> /ipi-network-instance:network-instances/network-instance/vpls-instance/vpls-
peers/vpls-peer/config/peer-address
| |   +--ro in-label         uint32
| |   +--ro out-label        uint32
| |   +--ro out-interface-name  string
| +--rw hierarchical-vpls-entries
|   +--rw hierarchical-vpls-entry* [vpls-identifier spoke-pseudowire-name]
|     +--rw vpls-identifier  -> ../config/vpls-identifier
|     +--rw spoke-pseudowire-name  -> ../config/spoke-pseudowire-name
|     +--rw config
| |   +--rw vpls-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
| |   +--rw spoke-pseudowire-name?  -> /ipi-network-instance:network-instances/network-instance/vpls-instance/
spoke-pseudowires/spoke-pseudowire/config/pseudowire-name
| |   +--rw in-label         uint32
| |   +--rw out-label        uint32
| |   +--rw out-interface-name  string
| |   +--ro state
| |   +--ro vpls-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier

```

```

|      +--ro spoke-pseudowire-name? -> /ipi-network-instance:network-instances/network-instance/vpls-instance/
spoke-pseudowires/spoke-pseudowire/config/pseudowire-name
|      +--ro in-label                uint32
|      +--ro out-label               uint32
|      +--ro out-interface-name      string
+--rw mac-move-global
| +--rw config
| | +--rw detect-time?      uint16
| | +--rw detect-interval? uint16
| +--ro state
|   +--ro detect-time?      uint16
|   +--ro detect-interval? uint16
+--rw mac-limit-profiles
| +--rw mac-limit-profile* [profile-name] {feature-list:HAVE_VPLS}?
|   +--rw profile-name -> ../config/profile-name
|   +--rw config
|   | +--rw profile-name?      string
|   | +--rw learning-limit?    uint16
|   | +--rw action?            ipi-vpls-types:vpls_mpls_mac_limit_action_t
|   | +--rw high-watermark?    uint16
|   | +--rw low-watermark?     uint16
|   | +--rw errdisable-timeout-interval? uint32
|   +--ro state
|     +--ro profile-name?      string
|     +--ro learning-limit?    uint16
|     +--ro action?            ipi-vpls-types:vpls_mpls_mac_limit_action_t
|     +--ro high-watermark?    uint16
|     +--ro low-watermark?     uint16
|     +--ro errdisable-timeout-interval? uint32
+--rw interfaces
| +--rw interface* [name]
|   +--rw name -> ../config/name
|   +--rw config
|   | +--rw name? -> /ipi-interface:interfaces/interface/name
|   +--ro state
|     +--ro name? -> /ipi-interface:interfaces/interface/name
|   +--rw vpls-access {feature-list:HAVE_SUBINTERFACE}?

```

```

|   +--rw config!
|   |   +--rw enable          empty
|   |   +--rw vpls-name?      string
|   |   +--rw disable-mac-learning? empty
|   |   +--rw learning-limit?  -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|   |   +--rw static-mac-address*  cml-data-types:cml_mac_addr_t
|   +--ro state
|   |   +--ro enable          empty
|   |   +--ro vpls-name?      string
|   |   +--ro disable-mac-learning? empty
|   |   +--ro learning-limit?  -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|   |   +--ro static-mac-address*  cml-data-types:cml_mac_addr_t
+--rw global
+--ro state
+--ro counters
+--ro total-instances?      yang:counter32
+--ro total-peers?          yang:counter32
+--ro active-peer-instances? yang:counter32
+--ro inactive-peer-instances? yang:counter32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw vpls-instance
+--rw config!
| +--rw vpls-identifier          uint32
| +--rw service-transport-identifier?  ipi-vpls-types:vpls_svc_tpid_t
| +--rw route-map?              string
| +--rw maximum-transmission-unit?    uint16
| +--rw vpls-description?          cml-data-types:cml_line_t
| +--rw control-word?             empty
| +--rw mac-learning-disable?       empty
| +--rw mac-learning-limit?         uint32 {feature-list:NOT_HAVE_TRIDENT2,feature-
list:NOT_HAVE_TRIDENT2PLUS}?
| +--rw attachment-circuit-group-name?  -> /ipi-mpls:mpls/l2vpn/access-circuit-groups/access-circuit-group/
config/group-name
| +--rw mac-withdrawal?           ipi-vpls-types:vpls_mpls_mac_withdrawal_t
| +--rw mac-flush-send-on-mlag-switchover? empty
+--ro state

```

```

| +--ro vpls-identifier          uint32
| +--ro service-transport-identifier?  ipi-vpls-types:vpls_svc_tpid_t
| +--ro route-map?              string
| +--ro maximum-transmission-unit?    uint16
| +--ro vpls-description?          cml-data-types:cml_line_t
| +--ro control-word?             empty
| +--ro mac-learning-disable?       empty
| +--ro mac-learning-limit?         uint32 {feature-list:NOT_HAVE_TRIDENT2,feature-
list:NOT_HAVE_TRIDENT2PLUS}?
| +--ro attachment-circuit-group-name?  -> /ipi-mpls:mpls/l2vpn/access-circuit-groups/access-circuit-group/
config/group-name
| +--ro mac-withdrawal?           ipi-vpls-types:vpls_mpls_mac_withdrawal_t
| +--ro mac-flush-send-on-mlag-switchover?  empty
| +--ro signaling-protocol?        ipi-vpls-types:vpls_signaling_type_t
| +--ro route-distinguisher?       string
| +--ro route-target?              string
| +--ro vpls-edge-id?              uint32
| +--ro attachment-circuit-status?    ipi-vpls-types:vpls_ac_status_t
| +--ro vpls-type?                  ipi-vpls-types:vpls_vc_type_t
| +--ro service-vlan-id?            uint16
| +--ro group-identifier?           uint32
| +--ro total-mac-addresses-learnt?   uint32
| +--ro vc-id?                      uint32
| +--ro vc-name?                    string
| +--ro peer-address?                string
| +--ro spoke-state?                ipi-vpls-types:vpls_peer_state_t
+--rw spoke-pseudowires
| +--rw spoke-pseudowire* [pseudowire-name]
|   +--rw pseudowire-name  -> ../config/pseudowire-name
|   +--rw config
|     | +--rw pseudowire-name?    string
|     | +--rw secondary-pseudowire-name?  string
|     | +--rw learning-limit?      -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|     | +--rw enable-revertive-mode?  empty
|     | +--rw revertive-timer?       uint16
|     | +--rw split-horizon?        ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
|     +--ro state

```

```

|   +--ro pseudowire-name?      string
|   +--ro secondary-pseudowire-name?  string
|   +--ro learning-limit?       -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|   +--ro enable-revertive-mode?  empty
|   +--ro revertive-timer?       uint16
|   +--ro split-horizon?        ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
+--rw fat-label
| +--rw config!
| | +--rw enable-flow-label      empty
| | +--rw flow-label-direction?  ipi-vpls-types:vpls_mpls_flow_label_direction_t
| | +--rw enable-static-flow-label?  empty
| | +--rw enable-interface-parameter-tlv?  empty
| +--ro state
| | +--ro enable-flow-label      empty
| | +--ro flow-label-direction?  ipi-vpls-types:vpls_mpls_flow_label_direction_t
| | +--ro enable-static-flow-label?  empty
| | +--ro enable-interface-parameter-tlv?  empty
+--rw vpls-peers
| +--rw vpls-peer* [peer-address]
| | +--rw peer-address  -> ../config/peer-address
| | +--rw config
| | | +--rw peer-address?  inet:ipv4-address
| | | +--rw tunnel-name?   string
| | | +--rw tunnel-policy?  string {feature-list:HAVE_SERVICE_MAPPING}?
| | | +--rw tunnel-identifier?  uint32
| | | +--rw peer-type?      ipi-vpls-types:vpls_peer_type_t
| | | +--rw vpls-type?      ipi-vpls-types:vpls_vc_type_t
| | +--ro state
| | | +--ro peer-address?   inet:ipv4-address
| | | +--ro tunnel-name?   string
| | | +--ro tunnel-policy?  string {feature-list:HAVE_SERVICE_MAPPING}?
| | | +--ro tunnel-identifier?  uint32
| | | +--ro peer-type?      ipi-vpls-types:vpls_peer_type_t
| | | +--ro vpls-type?      ipi-vpls-types:vpls_vc_type_t
| | +--rw fec129s
| | | +--rw fec129* [attachment-group-identifier source-attachment-individual-identifier target-attachment-
individual-identifier]

```

```

| |   +--rw attachment-group-identifier      -> ../config/attachment-group-identifier
| |   +--rw source-attachment-individual-identifier  -> ../config/source-attachment-individual-identifier
| |   +--rw target-attachment-individual-identifier  -> ../config/target-attachment-individual-identifier
| |   +--rw config
| |     | +--rw attachment-group-identifier?      string
| |     | +--rw source-attachment-individual-identifier?  string
| |     | +--rw target-attachment-individual-identifier?  string
| |     | +--rw tunnel-name?                        string
| |     | +--rw tunnel-policy?                      string {feature-list:HAVE_SERVICE_MAPPING}?
| |     | +--rw tunnel-identifier?                  string
| |   +--ro state
| |     +--ro attachment-group-identifier?      string
| |     +--ro source-attachment-individual-identifier?  string
| |     +--ro target-attachment-individual-identifier?  string
| |     +--ro tunnel-name?                        string
| |     +--ro tunnel-policy?                      string {feature-list:HAVE_SERVICE_MAPPING}?
| |     +--ro tunnel-identifier?                  string
| +--rw config!
| | +--rw signaling-protocol-ldp    empty
| | +--rw disable-mac-withdrawal?  empty
| | +--rw vpls-ac-treatment-type?  ipi-vpls-types:cml_nsm_vpls_ac_treat_type_t
| | +--rw vpls-encapsulation-type? ipi-vpls-types:vpls_vc_type_t
| +--ro state
|   +--ro signaling-protocol-ldp    empty
|   +--ro disable-mac-withdrawal?  empty
|   +--ro vpls-ac-treatment-type?  ipi-vpls-types:cml_nsm_vpls_ac_treat_type_t
|   +--ro vpls-encapsulation-type? ipi-vpls-types:vpls_vc_type_t
+--rw ldp-sig-bgp-autodiscovery {feature-list:HAVE_BGP_VPLS}?
| +--rw config!
| | +--rw rd-string?      string
| | +--rw l2vpn-id?      string
| | +--rw bgp-auto-discovery  empty
| +--ro state
| | +--ro rd-string?      string
| | +--ro l2vpn-id?      string
| | +--ro bgp-auto-discovery  empty

```

```
| +--rw route-targets
|   +--rw route-target* [rt-string]
|     +--rw rt-string  -> ../config/rt-string
|     +--rw config
|       | +--rw rt-string?  ipi-bgp-types:bgp_vrf_rt_t
|       | +--rw direction  ipi-bgp-types:bgp_target_route_type_t
|       +--ro state
|         +--ro rt-string?  ipi-bgp-types:bgp_vrf_rt_t
|         +--ro direction  ipi-bgp-types:bgp_target_route_type_t
+--rw bgp-signaling {feature-list:HAVE_BGP_VPLS}?
| +--rw config!
| | +--rw signaling-protocol-bgp  empty
| | +--rw vpls-edge-identifier?   uint16
| | +--rw tunnel-policy?         string {feature-list:HAVE_SERVICE_MAPPING}?
| +--ro state
|   +--ro signaling-protocol-bgp  empty
|   +--ro vpls-edge-identifier?   uint16
|   +--ro tunnel-policy?         string {feature-list:HAVE_SERVICE_MAPPING}?
+--rw quality-of-service-profiles
| +--rw quality-of-service-profile* [profile-type profile-name] {feature-list:HAVE_QOS}?
|   +--rw profile-type  -> ../config/profile-type
|   +--rw profile-name  -> ../config/profile-name
|   +--rw config
|     | +--rw profile-type?  ipi-vpls-types:vpls_qos_map_profile_type_t
|     | +--rw profile-name?  string
|     +--ro state
|       +--ro profile-type?  ipi-vpls-types:vpls_qos_map_profile_type_t
|       +--ro profile-name?  string
+--ro mac-learning-table* [mac-address]
| +--ro mac-address  -> ../state/mac-address
| +--ro state
|   +--ro mac-address?      cml-data-types:cml_mac_addr_t
|   +--ro vpls-identifier?  uint32
|   +--ro learning-source-interface?  string
|   +--ro matched-vlan?    uint16
|   +--ro peer-address?    inet:ipv4-address
```

```

|   +--ro ageing-timeout?          uint32
+--rw vpls-mac-move-instance
|   +--rw config!
|   |   +--rw mac-move-instance      empty
|   |   +--rw detect-time?          uint16
|   |   +--rw detect-interval?      uint16
|   |   +--rw errdisable-timeout-interval?  uint32
|   |   +--rw errdisable-allow-mesh-blocking?  empty
|   +--ro state
|   |   +--ro mac-move-instance      empty
|   |   +--ro detect-time?          uint16
|   |   +--ro detect-interval?      uint16
|   |   +--ro errdisable-timeout-interval?  uint32
|   |   +--ro errdisable-allow-mesh-blocking?  empty
+--ro peer-list* [peer-address]
|   +--ro peer-address  -> ../state/peer-address
|   +--ro state
|   |   +--ro peer-address?          inet:ipv4-address
|   |   +--ro vpls-identifier?      uint32
|   |   +--ro route-distinguisher?  string
|   |   +--ro vpls-edge-id?         uint32
|   |   +--ro maximum-transmission-unit?  uint16
|   |   +--ro tunnel-label?         uint32
|   |   +--ro pseudowire-in-label?   uint32
|   |   +--ro pseudowire-out-label?  uint32
|   |   +--ro peer-state?           ipi-vpls-types:vpls_peer_state_t
|   |   +--ro up-time?              cml-data-types:cml_line_t
|   |   +--ro pseudowire-status?     ipi-vpls-types:vpls_pseudowire_status_t
|   |   +--ro peer-vpls-type?        ipi-vpls-types:vpls_vc_type_t
|   |   +--ro network-interface?     string
|   |   +--ro signaling-protocol?     ipi-vpls-types:vpls_signaling_type_t
+--ro access-interface-counters* [interface-name] {feature-list:HAVE_MPLS_STATS}?
|   +--ro interface-name  -> ../state/interface-name
|   +--ro state
|   |   +--ro interface-name?        -> /ipi-interface:interfaces/interface/name
|   |   +--ro vpls-identifier?      uint32

```

```

|   +--ro service-template-name?  string
|   +--ro in-packets?             uint64
|   +--ro in-bytes?               uint64
|   +--ro out-packets?            uint64
|   +--ro out-bytes?              uint64
+--ro network-interface-counters* [peer-address] {feature-list:HAVE_MPLS_STATS}?
    +--ro peer-address  -> ../state/peer-address
    +--ro state
        +--ro peer-address?    inet:ipv4-address
        +--ro vpls-identifier? uint32
        +--ro peer-state?      ipi-vpls-types:vpls_peer_state_t
        +--ro interface-name?  -> /ipi-interface:interfaces/interface/name
        +--ro in-packets?      uint64
        +--ro in-bytes?        uint64
        +--ro out-packets?     uint64
        +--ro out-bytes?       uint64

rpcs:
+---x clear-mpls-vpls-name-statistics-port-type {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_VPLS}?
|   +---w input
|   +---w port-type            ipi-vpls-types:vpls_port_type_t
|   +---w port-circuit-name    string
+---x clear-mpls-vpls-name-statistics-network-port-peer {feature-list:HAVE_MPLS_STATS,feature-
list:HAVE_VPLS}?
|   +---w input
|   +---w port-circuit-name    string
|   +---w vc-circuit-type      ipi-vpls-types:vpls_peer_address_type_t
+---x clear-mpls-vpls-name-statistics-network-port-spoke {feature-list:HAVE_MPLS_STATS,feature-
list:HAVE_VPLS}?
|   +---w input
|   +---w port-circuit-name    string
|   +---w vc-circuit-type      ipi-vpls-types:vpls_spoke_vc_type_t
+---x clear-mpls-vpls-name-statistics-access-port {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_VPLS}?
|   +---w input
|   +---w port-circuit-name    string
|   +---w vc-interface-name    string
|   +---w vc-access-type       ipi-vpls-types:vpls_mpls_access_type_t

```

```

+---x clear-mpls-vpls-name-statistics {feature-list:HAVE_VPLS,feature-list:HAVE_MPLS_STATS}?
| +---w input
|   +---w vpls-circuit-name  string
+---x clear-mpls-vpls-mac-addresses-for-instance {feature-list:HAVE_VPLS}?
| +---w input
|   +---w name  string
+---x clear-mpls-vpls-mac-addresses-all {feature-list:HAVE_VPLS}?
+---x clear-mpls-vpls-mac-move-for-instance {feature-list:HAVE_VPLS}?
    +---w input
        +---w name  string

```

notifications:

```

+---n mpls-vpls-session-up
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro peer-address?  inet:ipv4-address
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro vpls-identifier? uint32
| +--ro peer-state?    ipi-vpls-types:vpls_peer_state_t
+---n mpls-vpls-session-down
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro peer-address?  inet:ipv4-address
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro vpls-identifier? uint32
| +--ro peer-state?    ipi-vpls-types:vpls_peer_state_t
+---n mpls-vpls-spoke-session-up
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro vpls-identifier? uint32
| +--ro vc-id?         uint32
| +--ro vc-name?       string

```

```

| +--ro peer-address?   string
| +--ro spoke-state?    ipi-vpls-types:vpls_peer_state_t
+---n mpls-vpls-spoke-session-down
  +--ro severity?       cml-data-types:cml_notif_severity_t
  +--ro eventClass?     cml-data-types:cml_notif_class_t
  +--ro instance-type?  ipi-network-instance-types:net_inst_type_t
  +--ro instance-name?  string
  +--ro vpls-identifier? uint32
  +--ro vc-id?          uint32
  +--ro vc-name?        string
  +--ro peer-address?   string
  +--ro spoke-state?    ipi-vpls-types:vpls_peer_state_t

```

ipi-l2vpn-vpws

```

+--rw vpws
  +--rw interfaces
    | +--rw interface* [name]
    |   +--rw name          -> ../config/name
    |   +--rw config
    |     | +--rw name? -> /ipi-interface:interfaces/interface/name
    |     +--ro state
    |       | +--ro name? -> /ipi-interface:interfaces/interface/name
    |       +--rw pseudowire-modes
    |         | +--rw pseudowire-mode* [service-template]
    |         |   +--rw service-template -> ../config/service-template
    |         |   +--rw config
    |         |     | +--rw service-template? string
    |         |     | +--rw mode          ipi-vpws-types:vpws_mpls_vcmode_t
    |         |     +--ro state
    |         |       +--ro service-template? string
    |         |       +--ro mode          ipi-vpws-types:vpws_mpls_vcmode_t
    |         +--rw vpws-access {feature-list:HAVE_SUBINTERFACE}?
    |           +--rw config!
    |             | +--rw enable          empty
    |             | +--rw enable-revertive-mode? empty

```

```

| | | +--rw revertive-timer?                uint16
| | | +--rw mac-withdrawal-send-on-vpws-vc-switchover? empty
| | +--ro state
| | | +--ro enable                          empty
| | | +--ro enable-revertive-mode?          empty
| | | +--ro revertive-timer?                uint16
| | | +--ro mac-withdrawal-send-on-vpws-vc-switchover? empty
| | +--rw bindings
| |   +--rw binding* [vpws-name]
| |     +--rw vpws-name  -> ../config/vpws-name
| |     +--rw config
| |       | +--rw vpws-name?                string
| |       | +--rw pseudowire-link-mode     ipi-vpws-types:vpws_mpls_vclinkmode_t
| |       +--ro state
| |         +--ro vpws-name?                string
| |         +--ro pseudowire-link-mode     ipi-vpws-types:vpws_mpls_vclinkmode_t
| +--rw service-template-mappings
|   +--rw service-template-mapping* [pseudowire-name]
|     +--rw pseudowire-name  -> ../config/pseudowire-name
|     +--rw config
|       | +--rw pseudowire-name?            string
|       | +--rw service-template-name      -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-
template/name
|       | +--rw pseudowire-link-mode       ipi-vpws-types:vpws_mpls_vclinkmode_t
|       | +--rw cos-to-queue-profile-name?  string {feature-list:HAVE_QOS_MAPPING_PROFILE}?
|       | +--rw queue-to-cos-profile-name?  string {feature-list:HAVE_QOS_MAPPING_PROFILE,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
|       +--ro state
|         +--ro pseudowire-name?            string
|         +--ro service-template-name      -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-
template/name
|         +--ro pseudowire-link-mode       ipi-vpws-types:vpws_mpls_vclinkmode_t
|         +--ro cos-to-queue-profile-name?  string {feature-list:HAVE_QOS_MAPPING_PROFILE}?
|         +--ro queue-to-cos-profile-name?  string {feature-list:HAVE_QOS_MAPPING_PROFILE,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
+--rw static-forwarding
| +--rw forwarding-information-bases
|   +--rw forwarding-information-base* [pseudowire-identifier nexthop-address]

```

```

|   +--rw pseudowire-identifier  -> ../config/pseudowire-identifier
|   +--rw nexthop-address        -> ../config/nexthop-address
|   +--rw config
|   |   +--rw pseudowire-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpws-instance/
pseudowires/pseudowire/config/pseudowire-identifier
|   |   +--rw incoming-label          uint32
|   |   +--rw outgoing-label          uint32
|   |   +--rw nexthop-address?        inet:ip-address
|   |   +--rw provider-interface-name  -> /ipi-interface:interfaces/interface/name
|   |   +--rw access-interface-name    -> /vpws/interfaces/interface/name
|   +--ro state
|   |   +--ro pseudowire-identifier?  -> /ipi-network-instance:network-instances/network-instance/vpws-instance/
pseudowires/pseudowire/config/pseudowire-identifier
|   |   +--ro incoming-label          uint32
|   |   +--ro outgoing-label          uint32
|   |   +--ro nexthop-address?        inet:ip-address
|   |   +--ro provider-interface-name  -> /ipi-interface:interfaces/interface/name
|   |   +--ro access-interface-name    -> /vpws/interfaces/interface/name
+--ro global
+--ro state
+--ro counters
+--ro total-pseudowires?  uint32
+--ro active-pseudowires? uint32
+--ro inactive-pseudowires? uint32
+--ro oam-pseudowires?   uint32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw vpws-instance
+--rw pseudowires
| +--rw pseudowire* [pseudowire-identifier peer-address]
| +--rw pseudowire-identifier  -> ../config/pseudowire-identifier
| +--rw peer-address           -> ../config/peer-address
| +--rw config
| | +--rw pseudowire-identifier? uint32
| | +--rw peer-address?          ipi-vpws-types:vpws_ip_addr_t
| +--ro state
| | +--ro pseudowire-identifier?   uint32

```

```

| | +--ro peer-address?          ipi-vpws-types:vpws_ip_addr_t
| | +--ro vc-admin-status?      ipi-vpws-types:vpws_mpls_vc_admin_status_t {feature-
list:HAVE_UNI_CLI}?
| | +--ro up-time?              yang:date-and-time
| | +--ro last-change-time?     yang:date-and-time
| | +--ro create-time?         yang:date-and-time
| | +--ro owner?                ipi-vpws-types:vpws_mpls_vc_owner_t
| | +--ro non-te-mapping-direction? ipi-vpws-types:vpws_mpls_mapping_dir_t
| | +--ro remote-pseudowire-status? ipi-vpws-types:vpws_mpls_pw_status_t
| | +--ro pseudowire-state?     ipi-vpws-types:vpws_mpls_pw_state_t
| | +--ro pseudowire-index?     uint32
| | +--ro pseudowire-type?      ipi-vpws-types:vpws_mpls_pw_type_t
| | +--ro pseudowire-mode?      ipi-vpws-types:vpws_mpls_pw_mode_t
| | +--ro pseudowire-label?     uint32
| | +--ro tunnel-label?         uint32
| | +--ro network-interface-name? string
| | +--ro customer-service-template-name? string
| | +--ro ldp-ecmp-svc?         string {feature-list:HAVE_MPLS_ECMP}?
| | +--ro rsvp-multipath-svc?   string {feature-list:HAVE_RSVP_MULTIPATH}?
| | +--ro down-reason?          cml-data-types:cml_line_t
| +--rw default-tagged
| | +--rw config!
| | | +--rw enable-default-tagged-mode    empty
| | | +--rw service-tpid?                 ipi-vpws-types:vpws_svc_tpid_t
| | | +--rw group-name?                   string
| | | +--rw group-identifier?              uint32
| | | +--rw enable-control-word?          empty
| | | +--rw tunnel-name?                  string
| | | +--rw tunnel-policy?                 string {feature-list:HAVE_SERVICE_MAPPING}?
| | | +--rw tunnel-identifier?             uint32
| | | +--rw enable-flow-label?             empty
| | | +--rw flow-label-direction?          ipi-vpws-types:vpws_mpls_flow_label_direction_t
| | | +--rw enable-static-flow-label?      empty
| | | +--rw enable-interface-parameter-tlv? empty
| | | +--rw enable-manual-pseudowire?      empty
| | | +--rw control-channel-type?          ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?

```

```
| | | +--rw control-verification-type?      ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-  
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?  
| | +--ro state  
| |   +--ro enable-default-tagged-mode      empty  
| |   +--ro service-tpid?                   ipi-vpws-types:vpws_svc_tpid_t  
| |   +--ro group-name?                      string  
| |   +--ro group-identifier?                uint32  
| |   +--ro enable-control-word?             empty  
| |   +--ro tunnel-name?                     string  
| |   +--ro tunnel-policy?                   string {feature-list:HAVE_SERVICE_MAPPING}?  
| |   +--ro tunnel-identifier?               uint32  
| |   +--ro enable-flow-label?               empty  
| |   +--ro flow-label-direction?            ipi-vpws-types:vpws_mpls_flow_label_direction_t  
| |   +--ro enable-static-flow-label?        empty  
| |   +--ro enable-interface-parameter-tlv?  empty  
| |   +--ro enable-manual-pseudowire?        empty  
| |   +--ro control-channel-type?            ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-  
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?  
| |   +--ro control-verification-type?      ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-  
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?  
| +--rw tagged  
| +--rw config!  
| | +--rw enable-tagged-mode                empty  
| | +--rw group-name?                       string  
| | +--rw group-identifier?                 uint32  
| | +--rw enable-control-word?              empty  
| | +--rw tunnel-name?                      string  
| | +--rw tunnel-policy?                    string {feature-list:HAVE_SERVICE_MAPPING}?  
| | +--rw tunnel-identifier?                uint32  
| | +--rw enable-manual-pseudowire?          empty  
| | +--rw enable-flow-label?                empty  
| | +--rw flow-label-direction?              ipi-vpws-types:vpws_mpls_flow_label_direction_t  
| | +--rw enable-static-flow-label?          empty  
| | +--rw enable-interface-parameter-tlv?    empty  
| | +--rw control-channel-type?              ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-  
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?  
| | +--rw control-verification-type?        ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-  
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
```

```

| | +--ro state
| |   +--ro enable-tagged-mode          empty
| |   +--ro group-name?                 string
| |   +--ro group-identifier?           uint32
| |   +--ro enable-control-word?        empty
| |   +--ro tunnel-name?                string
| |   +--ro tunnel-policy?              string {feature-list:HAVE_SERVICE_MAPPING}?
| |   +--ro tunnel-identifier?          uint32
| |   +--ro enable-manual-pseudowire?   empty
| |   +--ro enable-flow-label?          empty
| |   +--ro flow-label-direction?       ipi-vpws-types:vpws_mpls_flow_label_direction_t
| |   +--ro enable-static-flow-label?   empty
| |   +--ro enable-interface-parameter-tlv? empty
| |   +--ro control-channel-type?       ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
| |   +--ro control-verification-type?  ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|   +--rw raw
|   +--rw config!
|   | +--rw enable-raw-mode            empty
|   | +--rw group-name?                string
|   | +--rw group-identifier?          uint32
|   | +--rw enable-control-word?       empty
|   | +--rw tunnel-name?               string
|   | +--rw tunnel-policy?              string {feature-list:HAVE_SERVICE_MAPPING}?
|   | +--rw tunnel-identifier?         uint32
|   | +--rw enable-manual-pseudowire?   empty
|   | +--rw control-channel-type?       ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|   | +--rw control-verification-type?  ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|   | +--rw enable-flow-label?          empty
|   | +--rw flow-label-direction?       ipi-vpws-types:vpws_mpls_flow_label_direction_t
|   | +--rw enable-static-flow-label?   empty
|   | +--rw enable-interface-parameter-tlv? empty
|   +--ro state
|   +--ro enable-raw-mode              empty
|   +--ro group-name?                  string

```

```

|      +--ro group-identifier?      uint32
|      +--ro enable-control-word?    empty
|      +--ro tunnel-name?           string
|      +--ro tunnel-policy?          string {feature-list:HAVE_SERVICE_MAPPING}?
|      +--ro tunnel-identifier?      uint32
|      +--ro enable-manual-pseudowire?  empty
|      +--ro enable-flow-label?       empty
|      +--ro flow-label-direction?    ipi-vpws-types:vpws_mpls_flow_label_direction_t
|      +--ro enable-static-flow-label?  empty
|      +--ro enable-interface-parameter-tlv?  empty
|      +--ro control-channel-type?     ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|      +--ro control-verification-type? ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
+--ro access-interface-counters* [interface-name] {feature-list:HAVE_MPLS_STATS}?
| +--ro interface-name  -> ../state/interface-name
| +--ro state
|   +--ro interface-name?    -> /ipi-interface:interfaces/interface/name
|   +--ro pseudowire-identifier?  uint32
|   +--ro service-template-name?  string
|   +--ro in-packets?           uint64
|   +--ro in-bytes?             uint64
|   +--ro out-packets?          uint64
|   +--ro out-bytes?            uint64
+--ro network-interface-counters* [peer-address] {feature-list:HAVE_MPLS_STATS}?
+--ro peer-address  -> ../state/peer-address
+--ro state
+--ro peer-address?    inet:ipv4-address
+--ro pseudowire-identifier?  uint32
+--ro interface-name?    -> /ipi-interface:interfaces/interface/name
+--ro in-packets?         uint64
+--ro in-bytes?           uint64
+--ro out-packets?        uint64
+--ro out-bytes?          uint64

rpcs:
+---x pseudowire-trap-configuration {feature-list:HAVE_SNMP}?

```

```

| +---w input
|   +---w status-notification    boolean
|   +---w delete-notification    boolean
|   +---w configure-notification  cml-data-types:cml_enable_disable_t
+---x clear-mpls-l2-circuit-statistics {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_MPLS_VC}?
| +---w input
|   +---w pseudowire-name    string
+---x clear-mpls-l2-circuit-port-statistics {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_MPLS_VC}?
| +---w input
|   +---w port-type          ipi-vpws-types:vpws_mpls_port_type_t
|   +---w port-pseudowire-name  string
+---x pseudowire-manual-switchover {feature-list:HAVE_MPLS_VC}?
  +---w input
    +---w primary-pseudowire    string
    +---w secondary-pseudowire  string

```

notifications:

```

+---n mpls-pseudowire-up
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro pseudowire-identifier? uint32
| +--ro peer-address?      ipi-vpws-types:vpws_ip_addr_t
| +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?     string
| +--ro pseudowire-state?   ipi-vpws-types:vpws_mpls_pw_state_t
+---n mpls-pseudowire-down
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro pseudowire-identifier? uint32
| +--ro peer-address?      ipi-vpws-types:vpws_ip_addr_t
| +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?     string
| +--ro pseudowire-state?   ipi-vpws-types:vpws_mpls_pw_state_t
+---n mpls-pseudowire-deleted
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t

```

```

+--ro pseudowire-identifier? uint32
+--ro peer-address?          ipi-vpws-types:vpws_ip_addr_t
+--ro instance-type?         ipi-network-instance-types:net_inst_type_t
+--ro instance-name?         string
+--ro pseudowire-state?      ipi-vpws-types:vpws_mpls_pw_state_t

```

ipi-lacp

```

+--rw lacp
  +--rw global
    | +--rw config
    | | +--rw system-priority? uint32
    | +--ro state
    |   +--ro system-priority? uint32
    |   +--ro system-id?       cml-data-types:cml_mac_addr_t
  +--rw debug
    | +--rw config
    | | +--rw options? ipi-lacp-types:lacp_debug_t
    | +--ro state
    |   +--ro options?       ipi-lacp-types:lacp_debug_t
    |   +--ro terminal-debug-status? ipi-lacp-types:lacp_debug_t
  +--ro aggregators
    | +--ro aggregator* [agg-name]
    |   +--ro agg-name -> ../state/agg-name
    |   +--ro state
    |     | +--ro agg-name?      string
    |     | +--ro interface-index? uint32
    |     | +--ro type?          ipi-lag-types:lag_aggregator_type_t
    |     | +--ro mac-address?    cml-data-types:cml_mac_addr_t
    |     | +--ro rx-link-count?  yang:counter32
    |     | +--ro tx-link-count?  yang:counter32
    |     | +--ro individual-aggregator? ipi-lacp-types:lacp_individual_aggregator_t
    |     | +--ro aggregator-ready? empty
    |     +--ro actor
    |     | +--ro state

```

```
| | +--ro admin-key?      uint16
| | +--ro oper-key?      uint16
| | +--ro system-priority? uint16
| | +--ro system-id?      cml-data-types:cml_mac_addr_t
| +--ro partner
| | +--ro state
| | +--ro oper-key?      uint16
| | +--ro system-priority? uint16
| | +--ro system-id?      cml-data-types:cml_mac_addr_t
| +--ro members
|   +--ro member* [link-name]
|     +--ro link-name  -> ../state/link-name
|     +--ro state
|       | +--ro link-name?      string
|       | +--ro sync-state?      ipi-lacp-types:lacp_synchronization_type_t
|       | +--ro receive-state?   ipi-lacp-types:lacp_rcv_state_t
|       | +--ro periodic-transmission-state? ipi-lacp-types:lacp_periodic_tx_state_t
|       | +--ro mux-machine-state? ipi-lacp-types:lacp_mux_state_t
|       | +--ro admin-key?      uint16
|       | +--ro counters
|       |   +--ro lacp-out-pkts?      yang:counter32
|       |   +--ro lacp-in-pkts?      yang:counter32
|       |   +--ro lacp-in-marker-pdu? yang:counter32
|       |   +--ro lacp-out-marker-pdu? yang:counter32
|       |   +--ro lacp-tx-errors?     yang:counter32
|       |   +--ro lacp-rx-errors?     yang:counter32
|       |   +--ro lacp-in-marker-pdu-response? yang:counter32
|       |   +--ro lacp-out-marker-pdu-response? yang:counter32
|       +--ro actor
|       | +--ro state
|       |   +--ro operational
|       |     | +--ro activity?      ipi-lacp-types:lacp_activity_type_t
|       |     | +--ro timeout?      ipi-lacp-types:lacp_timeout_type_t
|       |     | +--ro aggregatable?  boolean
|       |     | +--ro synchronization? ipi-lacp-types:lacp_synchronization_type_t
|       |     | +--ro collecting?    boolean
```

```

|   |   | +--ro distributing?    boolean
|   |   | +--ro defaulted?      boolean
|   |   | +--ro expired?        boolean
|   |   | +--ro port-key?       uint16
|   |   +--ro admin
|   |   | +--ro activity?        ipi-lacp-types:lacp_activity_type_t
|   |   | +--ro timeout?         ipi-lacp-types:lacp_timeout_type_t
|   |   | +--ro aggregatable?    boolean
|   |   | +--ro synchronization? ipi-lacp-types:lacp_synchronization_type_t
|   |   | +--ro collecting?      boolean
|   |   | +--ro distributing?    boolean
|   |   | +--ro defaulted?      boolean
|   |   | +--ro expired?        boolean
|   |   | +--ro port-key?       uint16
|   |   +--ro system-id?        cml-data-types:cml_mac_addr_t
|   |   +--ro system-priority?  uint16
|   |   +--ro port-number?      uint16
|   |   +--ro port-priority?    uint16
|   +--ro partner
|       +--ro state
|           +--ro operational
|               | +--ro activity?        ipi-lacp-types:lacp_activity_type_t
|               | +--ro timeout?         ipi-lacp-types:lacp_timeout_type_t
|               | +--ro aggregatable?    boolean
|               | +--ro synchronization? ipi-lacp-types:lacp_synchronization_type_t
|               | +--ro collecting?      boolean
|               | +--ro distributing?    boolean
|               | +--ro defaulted?      boolean
|               | +--ro expired?        boolean
|               | +--ro system-id?       cml-data-types:cml_mac_addr_t
|               | +--ro system-priority? uint16
|               | +--ro port-number?     uint16
|               | +--ro port-priority?   uint16
|               | +--ro port-key?       uint16
|               +--ro admin
|                   +--ro activity?      ipi-lacp-types:lacp_activity_type_t

```

```

|      +--ro timeout?      ipi-lacp-types:lacp_timeout_type_t
|      +--ro aggregatable?  boolean
|      +--ro synchronization? ipi-lacp-types:lacp_synchronization_type_t
|      +--ro collecting?    boolean
|      +--ro distributing?  boolean
|      +--ro defaulted?     boolean
|      +--ro expired?       boolean
|      +--ro system-id?     cml-data-types:cml_mac_addr_t
|      +--ro system-priority? uint16
|      +--ro port-number?   uint16
|      +--ro port-priority? uint16

```

```
+--rw interfaces
```

```
  +--rw interface* [name]
```

```
    +--rw name          -> ../config/name
```

```
    +--rw config
```

```
      | +--rw name? -> /ipi-interface:interfaces/interface/name
```

```
    +--ro state
```

```
      | +--ro name? -> /ipi-interface:interfaces/interface/name
```

```
    +--rw member-aggregation
```

```
      | +--rw config
```

```
        | | +--rw port-priority? uint32
```

```
        | | +--rw timeout?      ipi-lacp-types:lacp_timeout_type_t
```

```
        | | +--rw bridge-type?  ipi-lacp-types:lacp_bridgetype_t
```

```
        | | +--rw force-up?     empty
```

```
        | | +--rw agg-force-up? empty
```

```
      | +--ro state
```

```
        | +--ro port-priority? uint32
```

```
        | +--ro timeout?      ipi-lacp-types:lacp_timeout_type_t
```

```
        | +--ro bridge-type?  ipi-lacp-types:lacp_bridgetype_t
```

```
        | +--ro force-up?     empty
```

```
        | +--ro agg-force-up? empty
```

```
    +--rw aggregator
```

```
      +--rw config
```

```
      +--ro state
```

```
rpcs:
```



```

+---x lacp-snmp-restart {feature-list:HAVE_SNMP}?
+---x clear-lacp-counters {feature-list:HAVE_LAGD}?
| +---w input
|   +---w aggregate-id   uint16
+---x lacp-terminal-debug-on {feature-list:HAVE_LAGD}?
| +---w input
|   +---w terminal-debug-options   ipi-lacp-types:lacp_debug_t
+---x lacp-terminal-debug-off {feature-list:HAVE_LAGD}?
+---w input
+---w terminal-debug-options   ipi-lacp-types:lacp_debug_t

```

ipi-ldp

```

+--rw ldp
+--rw global
| +--rw config!
| | +--rw ldp-instance           ipi-ldp-types:ldp_instance_t
| | +--rw router-identifier?     inet:ipv4-address
| | +--rw pseudowire-status-tlv? empty {feature-list:HAVE_MPLS_VC}?
| | +--rw rlfa-ilm-optimization? empty
| | +--rw entropy-label-capability-enable? empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--rw multicast-hello-disable? empty
| | +--rw advertise-label-for-default-route? empty
| | +--rw import-bgp-routes?     empty
| | +--rw ldp-optimization?      empty
| | +--rw explicit-null?         empty
| | +--rw global-merge?          ipi-ldp-types:ldp_merge_capable_t
| | +--rw propagate-release?     empty
| | +--rw fast-reroute?          empty {feature-list:HAVE_LDP_LFA}?
| | +--rw prefer-tunnel-in-tunnel? empty {feature-list:HAVE_LDP_TUNNELING}?

```

```

| | +--rw ignore-mac-withdraw-bad-pdu-length? empty {feature-list:HAVE_MPLS_VC}?
| | +--rw rfa-tunnels? uint16
| +--ro state
| | +--ro ldp-instance ipi-ldp-types:ldp_instance_t
| | +--ro router-identifier? inet:ipv4-address
| | +--ro pseudowire-status-tlv? empty {feature-list:HAVE_MPLS_VC}?
| | +--ro rfa-ilm-optimization? empty
| | +--ro entropy-label-capability-enable? empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--ro multicast-hello-disable? empty
| | +--ro advertise-label-for-default-route? empty
| | +--ro import-bgp-routes? empty
| | +--ro ldp-optimization? empty
| | +--ro explicit-null? empty
| | +--ro global-merge? ipi-ldp-types:ldp_merge_capable_t
| | +--ro propagate-release? empty
| | +--ro fast-reroute? empty {feature-list:HAVE_LDP_LFA}?
| | +--ro prefer-tunnel-in-tunnel? empty {feature-list:HAVE_LDP_TUNNELING}?
| | +--ro ignore-mac-withdraw-bad-pdu-length? empty {feature-list:HAVE_MPLS_VC}?
| | +--ro rfa-tunnels? uint16
| +--rw auto-target-session {feature-list:HAVE_LDP_LFA}?
| | +--rw config
| | | +--rw auto-targeted-session? empty {feature-list:HAVE_LDP_LFA}?
| | | +--ro state
| | |   +--ro auto-targeted-session? empty {feature-list:HAVE_LDP_LFA}?
| +--rw label-management
| | +--rw config
| | | +--rw control-mode? ipi-ldp-types:ldp_controlmode_t
| | | +--rw retention-mode? ipi-ldp-types:ldp_retention_mode_t
| | | +--rw advertisement-mode? ipi-ldp-types:ldp_advertise_mode_t
| | +--ro state
| | | +--ro control-mode? ipi-ldp-types:ldp_controlmode_t
| | | +--ro retention-mode? ipi-ldp-types:ldp_retention_mode_t
| | | +--ro advertisement-mode? ipi-ldp-types:ldp_advertise_mode_t
| +--rw timers
| | +--rw config
| | | +--rw hello-interval? uint16

```

```

| | | +--rw hello-holdtime?    uint16
| | | +--rw keepalive-timeout?  uint16
| | | +--rw keepalive-interval? uint16
| | +--ro state
| |   +--ro hello-interval?    uint16
| |   +--ro hello-holdtime?    uint16
| |   +--ro keepalive-timeout?  uint16
| |   +--ro keepalive-interval? uint16
| +--rw label-request-policy
| | +--rw config
| | | +--rw request-retry-timeout?  uint16
| | | +--rw request-retry?          empty
| | | +--rw label-request-policy-ipv4? string
| | +--ro state
| |   +--ro request-retry-timeout?  uint16
| |   +--ro request-retry?          empty
| |   +--ro label-request-policy-ipv4? string
| +--rw loop-detection-policy
| | +--rw config!
| | | +--rw loop-detection-enable  empty
| | | +--rw path-vector-limit?    uint32
| | | +--rw hop-count-limit?      uint32
| | +--ro state
| |   +--ro loop-detection-enable  empty
| |   +--ro path-vector-limit?    uint32
| |   +--ro hop-count-limit?      uint32
| +--rw session-protection {feature-list:HAVE_LDP_SESS_PROT}?
|   +--rw config!
|   | +--rw session-protection-enable  empty
|   | +--rw duration?                  ipi-ldp-types:ldp_sess_prot_duration_t
|   | +--rw session-protection-prefix-list-name? ipi-ldp-types:ldp_sess_prot_pfx_lst_t
|   +--ro state
|     +--ro session-protection-enable  empty
|     +--ro duration?                  ipi-ldp-types:ldp_sess_prot_duration_t
|     +--ro session-protection-prefix-list-name? ipi-ldp-types:ldp_sess_prot_pfx_lst_t
+--rw debug

```

```

| +--rw config
| | +--rw ldp? ipi-ldp-types:ldp_debug_t
| | +--rw dev? ipi-ldp-types:ldp_debug_option_t
| +--ro state
|   +--ro ldp? ipi-ldp-types:ldp_debug_t
|   +--ro dev? ipi-ldp-types:ldp_debug_option_t
|   +--ro terminal-debug-options? ipi-ldp-types:ldp_debug_t
+--rw graceful-restart {feature-list:HAVE_RESTART}?
| +--rw config!
| | +--rw enable ipi-ldp-types:ldp_gr_mode_t
| | +--rw neighbor-liveness-time? uint16
| | +--rw max-recovery-time? uint16
| +--ro state
|   +--ro enable ipi-ldp-types:ldp_gr_mode_t
|   +--ro neighbor-liveness-time? uint16
|   +--ro max-recovery-time? uint16
|   +--ro restart-count? uint32
+--ro ldp-tunnels {feature-list:HAVE_LDP_TUNNELING}?
| +--ro ldp-tunnel* [tunnel-endpoint]
|   +--ro tunnel-endpoint -> ../state/tunnel-endpoint
|   +--ro state
|     | +--ro tunnel-endpoint? cml-data-types:cml_ipv4_addr_prefix_t
|     +--ro tunnel-lists
|       +--ro tunnel-list* [tunnel-name]
|         +--ro tunnel-name -> ../state/tunnel-name
|         +--ro state
|           | +--ro tunnel-name? string
|           | +--ro cost? uint32
|           | +--ro owner? string
|           | +--ro status? string
|           | +--ro fec-count? uint8
|           +--ro fec-lists
|             +--ro fec-list* [fec-prefix]
|               +--ro fec-prefix -> ../state/fec-prefix
|               +--ro state
|                 +--ro fec-prefix? cml-data-types:cml_ipv4_addr_prefix_t

```

```

|         +--ro upstream-peer?  inet:ipv4-address
|         +--ro in-label?       string
|         +--ro out-label?      string
+--rw lfa {feature-list:HAVE_LDP_LFA}?
| +--ro fecs
|   +--ro fec* [prefix-address]
|     +--ro prefix-address  -> ../state/prefix-address
|     +--ro state
|       | +--ro prefix-address?  inet:ip-address
|       +--ro primary-paths
|         +--ro primary-path* [nexthop-address nexthop-interface-name]
|           +--ro nexthop-address      -> ../state/nexthop-address
|           +--ro nexthop-interface-name -> ../state/nexthop-interface-name
|           +--ro state
|             | +--ro nexthop-address?      inet:ip-address
|             | +--ro nexthop-interface-name? string
|             +--ro backup-path
|               +--ro state
|                 +--ro backup-address?      inet:ip-address
|                 +--ro backup-interface-name? string
+--rw transport-addresses
| +--rw transport-address* [label-space-identifier]
|   +--rw label-space-identifier  -> ../config/label-space-identifier
|   +--rw config
|     | +--rw label-space-identifier?  ipi-ldp-types:ldp_label_space_identifier_t
|     | +--rw transport-address-ipv4?  inet:ipv4-address
|     +--ro state
|       +--ro label-space-identifier?  ipi-ldp-types:ldp_label_space_identifier_t
|       +--ro transport-address-ipv4?  inet:ipv4-address
+--rw peer-authentication
| +--rw peer-authentication-lists
| | +--rw peer-authentication-list* [peer-address] {feature-list:HAVE_TCP_MD5SIG}?
| |   +--rw peer-address  -> ../config/peer-address
| |   +--rw config
| |     | +--rw peer-address?  ipi-ldp-types:ldp_auth_neighbor_type_t
| |     | +--rw password-type  ipi-ldp-types:ldp_md5_encrypt_password_t

```

```

| | | +--rw password      ipi-ldp-types:ldp_md5_password_t
| |   +--ro state
| |     +--ro peer-address? ipi-ldp-types:ldp_auth_neighbor_type_t
| |     +--ro password-type ipi-ldp-types:ldp_md5_encrypt_password_t
| |     +--ro password      ipi-ldp-types:ldp_md5_password_t
| +--rw authentication-exclusions
| | +--rw config
| | | +--rw peer-address*  inet:ipv4-address
| | | +--ro state
| | | +--ro peer-address*  inet:ipv4-address
| +--rw authentication-groups
|   +--rw authentication-group* [group-name]
|     +--rw group-name      -> ../config/group-name
|     +--rw config
|       | +--rw group-name?  string
|       | +--rw prefix-list? string
|       +--ro state
|         | +--ro group-name?  string
|         | +--ro prefix-list? string
|         +--rw authentication-group-passwords
|           +--rw authentication-group-password* [auth]
|             +--rw auth      -> ../config/auth
|             +--rw config
|               | +--rw auth?      ipi-ldp-types:ldp_auth_group_type_t
|               | +--rw password-type ipi-ldp-types:ldp_md5_encrypt_password_t
|               | +--rw password      ipi-ldp-types:ldp_md5_password_t
|               +--ro state
|                 +--ro auth?      ipi-ldp-types:ldp_auth_group_type_t
|                 +--ro password-type ipi-ldp-types:ldp_md5_encrypt_password_t
|                 +--ro password      ipi-ldp-types:ldp_md5_password_t
+--rw label-mapping-access-lists
| +--rw label-mapping-access-list* [peer-access-control-list-name prefix-access-control-list-name]
|   +--rw peer-access-control-list-name  -> ../config/peer-access-control-list-name
|   +--rw prefix-access-control-list-name -> ../config/prefix-access-control-list-name
|   +--rw config
|     | +--rw prefix-access-control-list-name?  string

```

```

| | +--rw peer-access-control-list-name?  string
|   +--ro state
| | +--ro prefix-access-control-list-name?  string
| | +--ro peer-access-control-list-name?  string
| | +--ro advertisement-type?              ipi-ldp-types:ldp_advertisement_type_t
|   +--ro statistics
|     +--ro state
|       +--ro label-deny-mapping?  uint32
|       +--ro label-deny-request?  uint32
+--rw tcp-mss-lists
| +--rw tcp-mss-list* [peer-address]
|   +--rw peer-address  -> ../config/peer-address
|   +--rw config
| | +--rw peer-address?  ipi-ldp-types:ldp_neighbor_type_t
| | +--rw tcp-mss-range  uint32
|   +--ro state
|     +--ro peer-address?  ipi-ldp-types:ldp_neighbor_type_t
|     +--ro tcp-mss-range  uint32
+--rw received-label-control-lists
| +--rw received-label-control-list* [peer-control-list-name prefix-control-list-name]
|   +--rw peer-control-list-name  -> ../config/peer-control-list-name
|   +--rw prefix-control-list-name  -> ../config/prefix-control-list-name
|   +--rw config
| | +--rw prefix-control-list-name?  string
| | +--rw peer-control-list-name?  string
|   +--ro state
|     +--ro prefix-control-list-name?  string
|     +--ro peer-control-list-name?  string
+--rw interfaces
| +--rw interface* [name]
|   +--rw name  -> ../config/name
|   +--rw config
| | +--rw name?  -> /ipi-interface:interfaces/interface/name
| | +--rw enable-ldp-ipv4?  empty
| | +--rw multicast-hello-disable?  empty
| | +--rw maximum-pdu-length?  uint32

```

```
| | +--rw ldp-igp-sync-delay-interval? uint32
| +--ro state
| | +--ro name? -> /ipi-interface:interfaces/interface/name
| | +--ro enable-ldp-ipv4? empty
| | +--ro multicast-hello-disable? empty
| | +--ro maximum-pdu-length? uint32
| | +--ro ldp-igp-sync-delay-interval? uint32
| | +--ro primary-address-ipv4? string
| | +--ro primary-address-ipv6? string
| | +--ro counters
| | | +--ro packets
| | | | +--ro received
| | | | | +--ro notification? yang:counter32
| | | | | +--ro hello? yang:counter32
| | | | | +--ro initialization? yang:counter32
| | | | | +--ro keepalive? yang:counter32
| | | | | +--ro address-message? yang:counter32
| | | | | +--ro address-withdraw? yang:counter32
| | | | | +--ro label-mapping? yang:counter32
| | | | | +--ro label-request? yang:counter32
| | | | | +--ro label-withdraw? yang:counter32
| | | | | +--ro label-release? yang:counter32
| | | | | +--ro request-abort? yang:counter32
| | | | +--ro sent
| | | | | +--ro notification? yang:counter32
| | | | | +--ro hello? yang:counter32
| | | | | +--ro initialization? yang:counter32
| | | | | +--ro keepalive? yang:counter32
| | | | | +--ro address-message? yang:counter32
| | | | | +--ro address-withdraw? yang:counter32
| | | | | +--ro label-mapping? yang:counter32
| | | | | +--ro label-request? yang:counter32
| | | | | +--ro label-withdraw? yang:counter32
| | | | | +--ro label-release? yang:counter32
| | | | | +--ro request-abort? yang:counter32
| | | +--ro events
```



```

| |   +--ro ldp-shutdown-notification-received?      yang:counter32
| |   +--ro ldp-shutdown-notification-sent?          yang:counter32
| |   +--ro ldp-sessions-attempted?                  yang:counter32
| |   +--ro ldp-session-rejected-no-hello-errors?     yang:counter32
| |   +--ro ldp-session-rejected-advertisement-errors? yang:counter32
| |   +--ro ldp-session-rejected-maximum-pdu-errors?  yang:counter32
| |   +--ro ldp-session-rejected-label-range-errors?  yang:counter32
| |   +--ro ldp-bad-ldp-identifier-errors?            yang:counter32
| |   +--ro ldp-bad-pdu-length-errors?                yang:counter32
| |   +--ro ldp-bad-message-length-errors?            yang:counter32
| |   +--ro ldp-bad-tlv-length-errors?                yang:counter32
| |   +--ro ldp-malformed-tlv-value-errors?           yang:counter32
| |   +--ro ldp-keepalive-timer-expired-errors?       yang:counter32
|   +--rw hello-timers
|   | +--rw config
|   | | +--rw hello-interval?  uint16
|   | | +--rw hello-holdtime?  uint16
|   | +--ro state
|   |   +--ro hello-interval?  uint16
|   |   +--ro hello-holdtime?  uint16
|   +--rw session-timers
|   | +--rw config
|   | | +--rw keepalive-timeout?  uint16
|   | | +--rw keepalive-interval? uint16
|   | +--ro state
|   |   +--ro keepalive-timeout?  uint16
|   |   +--ro keepalive-interval? uint16
|   +--rw label-management
|   | +--rw config
|   | | +--rw interface-advertisement-mode?  ipi-ldp-types:ldp_advertise_mode_t
|   | | +--rw interface-retention-mode?      ipi-ldp-types:ldp_retention_mode_t
|   | +--ro state
|   |   +--ro interface-advertisement-mode?  ipi-ldp-types:ldp_advertise_mode_t
|   |   +--ro interface-retention-mode?      ipi-ldp-types:ldp_retention_mode_t
|   |   +--ro label-merge-capability?        ipi-ldp-types:ldp_label_merge_capability_t
|   +--ro ldp-identifier?                    string

```

```
+--ro l2vpn
| +--ro vpls-list* [vpls-identifier] {feature-list:HAVE_VPLS}?
| | +--ro vpls-identifier    -> ../state/vpls-identifier
| | +--ro state
| | | +--ro vpls-identifier?  uint32
| | | +--ro mesh-vc-count?   uint32
| | +--ro virtual-circuit-list* [neighbor-address]
| |   +--ro neighbor-address  -> ../state/neighbor-address
| |   +--ro state
| |     +--ro virtual-circuit-identifier?  uint32
| |     +--ro neighbor-address?            inet:ipv4-address
| |     +--ro virtual-circuit-state?       string
| |     +--ro local-pw-status-capability?  uint32
| |     +--ro remote-pw-status-capability? uint32
| |     +--ro current-pw-status-tlv?      uint32
| |     +--ro local-pseudowire-status?    string
| |     +--ro remote-pseudowire-status?   string
| |     +--ro virtual-circuit-label-sent?  uint32
| |     +--ro virtual-circuit-label-received? uint32
| +--ro state
| | +--ro counters {feature-list:HAVE_VPLS}?
| |   +--ro total-vpls-instances?          yang:counter32
| |   +--ro total-virtual-circuit-instances? yang:counter32
| |   +--ro active-virtual-circuit-instances? yang:counter32
| |   +--ro inactive-virtual-circuit-instances? yang:counter32
| +--ro virtual-circuit-list* [virtual-circuit-identifier] {feature-list:HAVE_MPLS_VC}?
|   +--ro virtual-circuit-identifier  -> ../state/virtual-circuit-identifier
|   +--ro state
|     +--ro virtual-circuit-identifier?  uint32
|     +--ro neighbor-address?            inet:ipv4-address
|     +--ro virtual-circuit-state?       string
|     +--ro local-pw-status-capability?  uint32
|     +--ro remote-pw-status-capability? uint32
|     +--ro current-pw-status-tlv?      uint32
|     +--ro local-pseudowire-status?    string
|     +--ro remote-pseudowire-status?   string
```

```

|   +--ro virtual-circuit-label-sent?   uint32
|   +--ro virtual-circuit-label-received? uint32
+--rw targeted-peers
| +--rw global-timers
| | +--rw config
| | | +--rw targeted-global-hello-interval? uint16
| | | +--rw targeted-global-hello-holdtime? uint16
| | +--ro state
| |   +--ro targeted-global-hello-interval? uint16
| |   +--ro targeted-global-hello-holdtime? uint16
| +--rw targeted-peer* [target-address]
|   +--rw target-address  -> ../config/target-address
|   +--rw config
|   | +--rw target-address? ipi-ldp-types:ldp_ip_addr_t
|   | +--rw tunnel?        empty
|   | +--rw hello-interval? uint16
|   | +--rw hello-holdtime? uint16
|   +--ro state
|     +--ro target-address? ipi-ldp-types:ldp_ip_addr_t
|     +--ro tunnel?        empty
|     +--ro hello-interval? uint16
|     +--ro hello-holdtime? uint16
|     +--ro counters
|       +--ro packets
|         +--ro received
|           | +--ro notification?   yang:counter32
|           | +--ro hello?          yang:counter32
|           | +--ro initialization?  yang:counter32
|           | +--ro keepalive?      yang:counter32
|           | +--ro address-message? yang:counter32
|           | +--ro address-withdraw? yang:counter32
|           | +--ro label-mapping?  yang:counter32
|           | +--ro label-request?   yang:counter32
|           | +--ro label-withdraw?  yang:counter32
|           | +--ro label-release?   yang:counter32
|           | +--ro request-abort?   yang:counter32

```

```

|      | +--ro sent
|      |   +--ro notification?      yang:counter32
|      |   +--ro hello?            yang:counter32
|      |   +--ro initialization?    yang:counter32
|      |   +--ro keepalive?        yang:counter32
|      |   +--ro address-message?   yang:counter32
|      |   +--ro address-withdraw?  yang:counter32
|      |   +--ro label-mapping?     yang:counter32
|      |   +--ro label-request?     yang:counter32
|      |   +--ro label-withdraw?    yang:counter32
|      |   +--ro label-release?     yang:counter32
|      |   +--ro request-abort?     yang:counter32
|      +--ro events
|          +--ro ldp-shutdown-notification-received?      yang:counter32
|          +--ro ldp-shutdown-notification-sent?          yang:counter32
|          +--ro ldp-sessions-attempted?                  yang:counter32
|          +--ro ldp-session-rejected-no-hello-errors?    yang:counter32
|          +--ro ldp-session-rejected-advertisement-errors? yang:counter32
|          +--ro ldp-session-rejected-maximum-pdu-errors? yang:counter32
|          +--ro ldp-session-rejected-label-range-errors? yang:counter32
|          +--ro ldp-bad-ldp-identifier-errors?           yang:counter32
|          +--ro ldp-bad-pdu-length-errors?               yang:counter32
|          +--ro ldp-bad-message-length-errors?          yang:counter32
|          +--ro ldp-bad-tlv-length-errors?              yang:counter32
|          +--ro ldp-malformed-tlv-value-errors?         yang:counter32
|          +--ro ldp-keepalive-timer-expired-errors?     yang:counter32
+--ro peers
  +--ro peer* [peer-address]
    +--ro peer-address      -> ../state/peer-address
    +--ro adjacency-list* [adjacency-prefix]
      | +--ro adjacency-prefix -> ../state/adjacency-prefix
      | +--ro state
      |   +--ro adjacency-prefix?  inet:ipv4-address
      |   +--ro is-targeted-peer?  boolean
      |   +--ro name?              -> /ipi-interface:interfaces/interface/name
      |   +--ro local-address?     inet:ipv4-address

```

```

+--ro received-label-list* [fec-prefix]
| +--ro fec-prefix  -> ../state/fec-prefix
| +--ro state
|   +--ro fec-prefix?  cml-data-types:cml_ipv4_addr_prefix_t
|   +--ro label?      string
+--ro sent-label-list* [fec-prefix]
| +--ro fec-prefix  -> ../state/fec-prefix
| +--ro state
|   +--ro fec-prefix?  cml-data-types:cml_ipv4_addr_prefix_t
|   +--ro label?      string
+--ro state
  +--ro peer-address?          inet:ipv4-address
  +--ro ldp-identifier?        string
  +--ro label-space?          uint16
  +--ro keepalive-timeout?     uint32
  +--ro session-up-time?      string
  +--ro session-state?        ipi-ldp-types:ldp_session_state_t
  +--ro session-role?         ipi-ldp-types:ldp_session_role_t
  +--ro advertisement-mode?    ipi-ldp-types:ldp_advertise_mode_t
  +--ro retention-mode?       ipi-ldp-types:ldp_retention_mode_t
  +--ro tcp-established?      ipi-ldp-types:ldp_tcp_status_t
  +--ro ldp-interface-name?   string
  +--ro discontinuity-time?    uint32
  +--ro unknown-message-type-errors?  uint32
  +--ro unknown-tlv-type-errors?  uint32
  +--ro initialization-session-threshold-limit?  uint32
  +--ro entity-path-vector-limit?  uint32
  +--ro peer-path-vector-limit?    uint32
  +--ro session-protection-status? ipi-ldp-types:ldp_sess_prot_status_t {feature-
list:HAVE_LDP_SESS_PROT}?

```

rpcs:

```

+---x clear-ldp-statistics {feature-list:HAVE_LDPD}?
+---x clear-ldp-statistics-advertise-labels {feature-list:HAVE_LDPD}?
+---x clear-ldp-statistics-advertise-labels-prefix {feature-list:HAVE_LDPD}?
| +---w input
|   +---w prefix  string

```

```

+---x clear-ldp-statistics-advertise-labels-prefix-peer {feature-list:HAVE_LDPD}?
| +---w input
|   +---w prefix    string
|   +---w peer      string
+---x clear-ldp-session-all {feature-list:HAVE_LDPD}?
+---x clear-ldp-session-ipv4 {feature-list:HAVE_LDPD}?
| +---w input
|   +---w addr    inet:ipv4-address
+---x clear-ldp-adjacency-all {feature-list:HAVE_LDPD}?
+---x clear-ldp-adjacency-ipv4 {feature-list:HAVE_LDPD}?
| +---w input
|   +---w addr    inet:ipv4-address
+---x snmp-restart-ldp {feature-list:HAVE_SNMP}?
+---x ldp-terminal-debug-on {feature-list:HAVE_LDPD}?
| +---w input
|   +---w terminal-debug-options    ipi-ldp-types:ldp_debug_t
+---x ldp-terminal-debug-off {feature-list:HAVE_LDPD}?
| +---w input
|   +---w terminal-debug-options    ipi-ldp-types:ldp_debug_t
+---x restart-ldp-graceful {feature-list:HAVE_RESTART}?

```

notifications:

```

+---n mpls-ldp-session-up
| +-ro severity?          cml-data-types:cml_notif_severity_t
| +-ro eventClass?        cml-data-types:cml_notif_class_t
| +-ro peer-address?      inet:ipv4-address
| +-ro session-state?     ipi-ldp-types:ldp_session_state_t
| +-ro discontinuity-time? uint32
| +-ro unknown-message-type-errors? uint32
| +-ro unknown-tlv-type-errors?  uint32
+---n mpls-ldp-session-down
| +-ro severity?          cml-data-types:cml_notif_severity_t
| +-ro eventClass?        cml-data-types:cml_notif_class_t
| +-ro peer-address?      inet:ipv4-address
| +-ro session-state?     ipi-ldp-types:ldp_session_state_t
| +-ro discontinuity-time? uint32

```

```

| +--ro unknown-message-type-errors? uint32
| +--ro unknown-tlv-type-errors?    uint32
+---n mpls-ldp-init-session-threshold-exceeded
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro peer-address?                inet:ipv4-address
| +--ro initialization-session-threshold-limit? uint32
+---n mpls-ldp-path-vector-limit-mismatch
  +--ro severity?                    cml-data-types:cml_notif_severity_t
  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  +--ro peer-address?                inet:ipv4-address
  +--ro entity-path-vector-limit?    uint32
  +--ro peer-path-vector-limit?      uint32

```

ipi-lldpv2

```

+--rw lldp
  +--rw global
    | +--rw config
    | | +--rw enable?          empty
    | | +--rw enable-tx-rx-only? ipi-ldp-types:lldp_enable_rx_only_tx_only_t
    | | +--rw notification-interval? uint16 {feature-list:HAVE_SNMP}?
    | +--ro state
    | | +--ro enable?          empty
    | | +--ro enable-tx-rx-only? ipi-ldp-types:lldp_enable_rx_only_tx_only_t
    | | +--ro notification-interval? uint16 {feature-list:HAVE_SNMP}?
    | | +--ro system-capabilities-enabled? cml-data-types:cml_line_t
    | | +--ro host-name-information?      string
    | | +--ro counters
    | |   +--ro remote-inserts? yang:counter32
    | |   +--ro remote-deletes? yang:counter32
    | |   +--ro remote-drops?   yang:counter32
    | |   +--ro remote-ageouts? yang:counter32
    +--rw global-tlv-control

```

```
| | +--rw global-basic-management
| | | +--rw config
| | | | +--rw port-description?    empty
| | | | +--rw system-description?  empty
| | | | +--rw system-name?        empty
| | | | +--rw system-capabilities? empty
| | | | +--rw management-address? empty
| | | +--ro state
| | |   +--ro port-description?    empty
| | |   +--ro system-description?  empty
| | |   +--ro system-name?        empty
| | |   +--ro system-capabilities? empty
| | |   +--ro management-address? empty
| | +--rw global-ieee-8021-org-specific
| | | +--rw config
| | | | +--rw port-vlan-id?        empty
| | | | +--rw port-protocol-vlan-id? empty
| | | | +--rw vlan-name?          empty
| | | | +--rw protocol-identifier? empty
| | | | +--rw vid-digest?         empty
| | | | +--rw management-vlan-id?  empty
| | | | +--rw link-aggregation?    empty
| | | +--ro state
| | |   +--ro port-vlan-id?        empty
| | |   +--ro port-protocol-vlan-id? empty
| | |   +--ro vlan-name?          empty
| | |   +--ro protocol-identifier? empty
| | |   +--ro vid-digest?         empty
| | |   +--ro management-vlan-id?  empty
| | |   +--ro link-aggregation?    empty
| | +--rw global-ieee-8023-org-specific
| |   +--rw config
| |   | +--rw mac-phy?    empty
| |   | +--rw max-mtu-size? empty
| |   +--ro state
| |   +--ro mac-phy?    empty
```



```

| |   +--ro max-mtu-size?  empty
| +--rw management-if
| | +--rw config
| | | +--rw locally-assigned-chassis-id?  string
| | +--ro state
| |   +--ro locally-assigned-chassis-id?  string
| +--rw transmit
| | +--rw config
| | | +--rw reinit-delay?          uint32
| | | +--rw message-tx-interval?   uint32
| | | +--rw message-tx-hold-multiplier?  uint32
| | | +--rw message-fast-tx?       uint32
| | | +--rw tx-credit-max?         uint32
| | | +--rw tx-fast-init?          uint32
| | +--ro state
| |   +--ro reinit-delay?          uint32
| |   +--ro message-tx-interval?   uint32
| |   +--ro message-tx-hold-multiplier?  uint32
| |   +--ro message-fast-tx?       uint32
| |   +--ro tx-credit-max?         uint32
| |   +--ro tx-fast-init?          uint32
| +--rw receive
| | +--rw config
| | | +--rw neighbor-limit?  uint32
| | | +--rw neighbor-timer?  uint32
| | | +--rw port-mac?        cml-data-types:cml_mac_addr_t
| | | +--rw port-timer?      uint32
| | +--ro state
| |   +--ro neighbor-limit?  uint32
| |   +--ro neighbor-timer?  uint32
| |   +--ro port-mac?        cml-data-types:cml_mac_addr_t
| |   +--ro port-timer?      uint32
| +--rw agent-tlv
|   +--rw config
| | +--rw port-address?  ipi-lldp-types:lldp_mgmt_addr_t
| | +--rw chassis-id?   ipi-lldp-types:lldp_chassis_t

```

```

| | +--rw port-id?      ipi-ldp-types:lldp_port_t
|   +--ro state
|     +--ro port-address? ipi-ldp-types:lldp_mgmt_addr_t
|     +--ro chassis-id?   ipi-ldp-types:lldp_chassis_t
|     +--ro port-id?      ipi-ldp-types:lldp_port_t
+--rw debug
| +--rw config
| | +--rw options? ipi-ldp-types:lldp_debug_t
|   +--ro state
|     +--ro options?      ipi-ldp-types:lldp_debug_t
|     +--ro terminal-debug-status? ipi-ldp-types:lldp_debug_t
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
    | +--rw name?      -> /ipi-interface:interfaces/interface/name
    | +--rw disable-ldp-agent? empty
    | +--rw agent-circuit-id? string
    | +--rw med-device-type?   ipi-ldp-types:lldp_meddev_t
    | +--rw local-name?      string
    +--ro state
    | +--ro name?      -> /ipi-interface:interfaces/interface/name
    | +--ro disable-ldp-agent? empty
    | +--ro agent-circuit-id? string
    | +--ro med-device-type?   ipi-ldp-types:lldp_meddev_t
    | +--ro local-name?      string
    +--ro neighbors
    | +--ro agent* [agent-type]
    |   +--ro agent-type ipi-ldp-types:lldp_agent_t
    |   +--ro neighbor* [mac-address]
    |     +--ro mac-address -> ../state/mac-address
    |     +--ro state
    |       | +--ro mac-address?      cml-data-types:cml_mac_addr_t
    |       | +--ro system-name?      string
    |       | +--ro chassis-component? string
    |       | +--ro chassis-id-type?  uint8

```

```

|   | +--ro port-component?      string
|   | +--ro port-id?            string
|   | +--ro port-description?    string
|   | +--ro port-sub-type?       uint16
|   | +--ro interface-alias?     string
|   | +--ro interface-agent-circuit-id? string
|   | +--ro ttl?                uint16
|   | +--ro interface-number?    uint32
|   | +--ro interface-number-sub-type? string
|   | +--ro port-vlan-id?        uint16
|   | +--ro pp-vlanid?          uint16
|   | +--ro protocol?           ipi-lldp-types:lldp_protoid_t
|   | +--ro vid-usage-digest?    uint32
|   | +--ro management-vlan?     uint16
|   | +--ro auto-negotiation-support? uint8
|   | +--ro auto-negotiation-capability? uint16
|   | +--ro operational-mau-type? uint16
|   | +--ro link-aggregate-capability? cml-data-types:cml_line_t
|   | +--ro link-aggregate-id?    uint32
|   | +--ro max-frame-size?       uint16
|   | +--ro system-description?   string
|   | +--ro system-capabilities?  cml-data-types:cml_line_t
|   | +--ro system-capabilities-enabled? cml-data-types:cml_line_t
|   | +--ro vlan-list* [vlan-id]
|   |   +--ro vlan-id    uint16
|   |   +--ro vlan-name? string
|   +--ro management-lists
|     +--ro management-list* [address]
|       +--ro address -> ../state/address
|       +--ro state
|         +--ro address?      string
|         +--ro address-sub-type? cml-data-types:cml_line_t
|         +--ro interface-number-sub-type? string
|         +--ro interface-number? uint32
|         +--ro oid?          string
+--rw agents

```

```
+--rw agent* [agent-type]
  +--rw agent-type  -> ../config/agent-type
  +--rw config
    | +--rw agent-type?   ipi-ldp-types:lldp_agent_t
    | +--rw enable-tx-rx? ipi-ldp-types:lldp_enable_t
    | +--rw disable-tx-rx? empty
  +--ro state
    | +--ro agent-type?   ipi-ldp-types:lldp_agent_t
    | +--ro enable-tx-rx? ipi-ldp-types:lldp_enable_t
    | +--ro disable-tx-rx? empty
  +--rw transmit
    | +--rw config
    | | +--rw reinit-delay?      uint32
    | | +--rw message-tx-interval?  uint32
    | | +--rw message-tx-hold-multiplier? uint32
    | | +--rw message-fast-tx?      uint32
    | | +--rw tx-credit-max?        uint32
    | | +--rw tx-fast-init?         uint32
    | +--ro state
    | | +--ro reinit-delay?      uint32
    | | +--ro message-tx-interval?  uint32
    | | +--ro message-tx-hold-multiplier? uint32
    | | +--ro message-fast-tx?      uint32
    | | +--ro tx-credit-max?        uint32
    | | +--ro tx-fast-init?         uint32
    | | +--ro tx-ttl?            uint16
    | +--ro counters
    | | +--ro frames-out?  yang:counter32
  +--rw receive
    | +--rw config
    | | +--rw neighbor-limit?  uint32
    | | +--rw neighbor-timer?  uint32
    | | +--rw port-mac?        cml-data-types:cml_mac_addr_t
    | | +--rw port-timer?      uint32
    | +--ro state
    | | +--ro neighbor-limit?  uint32
```

```

|   +--ro neighbor-timer?   uint32
|   +--ro port-mac?         cml-data-types:cml_mac_addr_t
|   +--ro port-timer?       uint32
|   +--ro frames-aged-out?   yang:counter32
|   +--ro frames-discarded?  yang:counter32
|   +--ro frames-invalid?    yang:counter32
|   +--ro frames-valid?      yang:counter32
|   +--ro tlvs-discarded?    yang:counter32
|   +--ro tlvs-unrecognized? yang:counter32
+--rw agent-tlv
| +--rw config
| | +--rw port-address? ipi-lldp-types:lldp_mgmt_addr_t
| | +--rw chassis-id?   ipi-lldp-types:lldp_chassis_t
| | +--rw port-id?      ipi-lldp-types:lldp_port_t
| +--ro state
|   +--ro port-address? ipi-lldp-types:lldp_mgmt_addr_t
|   +--ro chassis-id?   ipi-lldp-types:lldp_chassis_t
|   +--ro port-id?      ipi-lldp-types:lldp_port_t
+--rw tlv-control
  +--rw basic-management
  | +--rw config
  | | +--rw port-description? ipi-lldp-types:lldp_tlv_select_type
  | | +--rw system-description? ipi-lldp-types:lldp_tlv_select_type
  | | +--rw system-name?       ipi-lldp-types:lldp_tlv_select_type
  | | +--rw system-capabilities? ipi-lldp-types:lldp_tlv_select_type
  | | +--rw management-address? ipi-lldp-types:lldp_tlv_select_type
  | +--ro state
  |   +--ro port-description? ipi-lldp-types:lldp_tlv_select_type
  |   +--ro system-description? ipi-lldp-types:lldp_tlv_select_type
  |   +--ro system-name?       ipi-lldp-types:lldp_tlv_select_type
  |   +--ro system-capabilities? ipi-lldp-types:lldp_tlv_select_type
  |   +--ro management-address? ipi-lldp-types:lldp_tlv_select_type
  +--rw ieee-8021-org-specific
  | +--rw config
  | | +--rw port-vlan-id?      ipi-lldp-types:lldp_tlv_select_type
  | | +--rw port-protocol-vlan-id? ipi-lldp-types:lldp_tlv_select_type

```

```

| | +--rw vlan-name?          ipi-lldp-types:lldp_tlv_select_type
| | +--rw protocol-identifier? ipi-lldp-types:lldp_tlv_select_type
| | +--rw vid-digest?         ipi-lldp-types:lldp_tlv_select_type
| | +--rw management-vlan-id? ipi-lldp-types:lldp_tlv_select_type
| | +--rw link-aggregation?   ipi-lldp-types:lldp_tlv_select_type
| +--ro state
|   +--ro port-vlan-id?       ipi-lldp-types:lldp_tlv_select_type
|   +--ro port-protocol-vlan-id? ipi-lldp-types:lldp_tlv_select_type
|   +--ro vlan-name?         ipi-lldp-types:lldp_tlv_select_type
|   +--ro protocol-identifier? ipi-lldp-types:lldp_tlv_select_type
|   +--ro vid-digest?        ipi-lldp-types:lldp_tlv_select_type
|   +--ro management-vlan-id? ipi-lldp-types:lldp_tlv_select_type
|   +--ro link-aggregation?   ipi-lldp-types:lldp_tlv_select_type
+--rw ieee-8023-org-specific
| +--rw config
| | +--rw mac-phy?          ipi-lldp-types:lldp_tlv_select_type
| | +--rw max-mtu-size?     ipi-lldp-types:lldp_tlv_select_type
| +--ro state
|   +--ro mac-phy?          ipi-lldp-types:lldp_tlv_select_type
|   +--ro max-mtu-size?     ipi-lldp-types:lldp_tlv_select_type
+--rw tlv-media-capabilities
  +--rw config
  | +--rw network-policy?    ipi-lldp-types:lldp_tlv_select_type
  | +--rw location?          ipi-lldp-types:lldp_tlv_select_type
  | +--rw inventory?         ipi-lldp-types:lldp_tlv_select_type
  | +--rw media-capabilities? ipi-lldp-types:lldp_tlv_select_type
  +--ro state
    +--ro network-policy?    ipi-lldp-types:lldp_tlv_select_type
    +--ro location?          ipi-lldp-types:lldp_tlv_select_type
    +--ro inventory?         ipi-lldp-types:lldp_tlv_select_type
    +--ro media-capabilities? ipi-lldp-types:lldp_tlv_select_type

```

rpcs:

```

+---x lldp-terminal-debug-on {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
| +---w input
|   +---w terminal-debug-options ipi-lldp-types:lldp_debug_t

```

```
+---x lldp-terminal-debug-off {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
| +---w input
|   +---w terminal-debug-options   ipi-lldp-types:lldp_debug_t
+---x clear-lldp-counter {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
| +---w input
|   +---w interface-name?  string
+---x clear-lldp-neighbors {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
| +---w input
|   +---w interface-name?  string
+---x lldp-snmp-restart {feature-list:HAVE_SNMP}?
```

notifications:

```
+---n lldp-remote-inserts-notification
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-inserts? yang:counter32
+---n lldp-remote-deletes-notification
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-deletes? yang:counter32
```

ipi-logging

```
+--rw logging
| +--rw logging-modules
| | +--rw module-logging* [module-name]
| |   +--rw module-name  -> ../config/module-name
| |   +--rw config
| | | +--rw module-name?   ipi-logging-types:module_names_t
| | | +--rw severity-level ipi-logging-types:log_severity_t
| | +--ro state
|   +--ro module-name?   ipi-logging-types:module_names_t
```

```
|   +--ro severity-level  ipi-logging-types:log_severity_t
+--rw monitor-logging
| +--rw config!
| | +--rw enable-logging  cml-data-types:cml_enable_disable_t
| | +--rw severity-level? ipi-logging-types:log_severity_t
| +--ro state
|   +--ro enable-logging  cml-data-types:cml_enable_disable_t
|   +--ro severity-level? ipi-logging-types:log_severity_t
+--rw console-logging
| +--rw config!
| | +--rw enable-logging  cml-data-types:cml_enable_disable_t
| | +--rw severity-level? ipi-logging-types:log_severity_t
| +--ro state
|   +--ro enable-logging  cml-data-types:cml_enable_disable_t
|   +--ro severity-level? ipi-logging-types:log_severity_t
+--rw logfile
| +--rw config!
| | +--rw file-name      string
| | +--rw severity-level ipi-logging-types:log_severity_t
| | +--rw max-file-size? uint32
| +--ro state
|   +--ro file-name      string
|   +--ro severity-level ipi-logging-types:log_severity_t
|   +--ro max-file-size? uint32
+--rw debug-logfile
| +--rw config!
| | +--rw file-name      string
| | +--rw max-file-size  uint32
| +--ro state
|   +--ro file-name      string
|   +--ro max-file-size  uint32
+--rw syslog {feature-list:HAVE_SYSLOG}?
| +--rw config
| | +--rw timestamp-granularity? ipi-logging-types:timestamp_units_t
| | +--rw cli-timestamp?         empty
| +--ro state
```

```

|   +--ro timestamp-granularity?  ipi-logging-types:timestamp_units_t
|   +--ro cli-timestamp?          empty
+--rw background-debug
| +--rw config!
| | +--rw enable          empty
| | +--rw buffer-size?   uint8
| +--ro state
| | +--ro enable          empty
| | +--ro buffer-size?   uint8
| +--rw bdr-module-loggings
|   +--rw bdr-module-logging* [module-name]
|     +--rw module-name  -> ../config/module-name
|     +--rw config
|       | +--rw module-name?          ipi-logging-types:bdr_module_names_t
|       | +--rw severity-level?      ipi-logging-types:log_severity_t
|       | +--rw suppress-non-bdr-logs? empty
|       | +--rw disable-suppress-repeated-logs? empty
|       +--ro state
|         +--ro module-name?          ipi-logging-types:bdr_module_names_t
|         +--ro severity-level?      ipi-logging-types:log_severity_t
|         +--ro suppress-non-bdr-logs? empty
|         +--ro disable-suppress-repeated-logs? empty
+--rw remote-logging
| +--rw config
| | +--rw enable-rsyslog? empty
| +--ro state
| | +--ro enable-rsyslog? empty
| +--rw remote-servers {feature-list:HAVE_VRF}?
| | +--rw remote-server* [vrf]
| |   +--rw vrf      -> ../config/vrf
| |   +--rw config
| |     | +--rw vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-
list:HAVE_VRF}?
| |     +--ro state
| |     | +--ro vrf? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-
list:HAVE_VRF}?
| |     +--rw servers

```

```

| |   +--rw server* [address]
| |     +--rw address  -> ../config/address
| |     +--rw config
| |       | +--rw address?  cml-data-types:cml_hostname_t
| |       | +--rw severity  ipi-logging-types:log_severity_t
| |       | +--rw port?    uint16
| |       +--ro state
| |         +--ro address?  cml-data-types:cml_hostname_t
| |         +--ro severity  ipi-logging-types:log_severity_t
| |         +--ro port?    uint16
| +--rw default-instance
|   +--rw config
|     | +--rw disable-default-instance?  empty
|     +--ro state
|       +--ro disable-default-instance?  empty
+--rw global
| +--rw config
| | +--rw remote-server-facility?  ipi-logging-types:log_facility_t
| | +--rw remote-authpriv-facility?  empty
| +--ro state
|   +--ro remote-server-facility?  ipi-logging-types:log_facility_t
|   +--ro remote-authpriv-facility?  empty
+--rw cli-logging
| +--rw config
| | +--rw enable-logging?  boolean
| +--ro state
|   +--ro enable-logging?  boolean
+--rw snmp-syslog {feature-list:HAVE_VLOGD}?
| +--rw config
| | +--rw severity?  ipi-logging-types:log_severity_t
| +--ro state
|   +--ro severity?  ipi-logging-types:log_severity_t
+--rw fault-management {feature-list:HAVE_FMS}?
  +--rw config
  | +--rw enable-fault-management?  empty
  +--ro state

```

```
+--ro enable-fault-management? empty
```

```
rpcs:
```

```
+---x logging-fms-flush-db {feature-list:HAVE_FMS}?
+---x logging-fms-shelve {feature-list:HAVE_FMS}?
| +---w input
|   +---w alarm-type string
+---x logging-fms-close {feature-list:HAVE_FMS}?
| +---w input
|   +---w active-alarm-id string
+---x terminal-debug-all-off
+---x logging-clear-debug-logfile
+---x logging-clear-logging-logfile
+---x remove-file
| +---w input
|   +---w file_type ipi-logging-types:remove_files_t
|   +---w filename ipi-logging-types:file_type_t
```

ipi-mac-limit

```
+--rw mac-limit-global
+--rw mac-limit-profiles
| +--rw mac-limit-profile-inst* [mac-lim-profile-name]
|   +--rw mac-lim-profile-name -> ../config/mac-lim-profile-name
|   +--rw config
|     | +--rw mac-lim-profile-name? string
|     | +--rw learning-limit? uint32
|     | +--rw action? ipi-mac-limit-types:mac_limit_action_t
|     | +--rw high-watermark? uint16
|     | +--rw low-watermark? uint16
|     | +--rw errdisable-timeout-interval? uint32
|   +--ro state
|     +--ro mac-lim-profile-name? string
|     +--ro learning-limit? uint32
|     +--ro action? ipi-mac-limit-types:mac_limit_action_t
|     +--ro high-watermark? uint16
```

```

+--ro low-watermark?          uint16
+--ro errdisable-timeout-interval?  uint32

```

ipi-mac-list

```

+--rw mac-addresses
  +--rw mac-address* [mac-list-name]
    +--rw mac-list-name  -> ../config/mac-list-name
    +--rw config
      | +--rw mac-list-name?  string
      +--ro state
      | +--ro mac-list-name?  string
    +--rw mac-entries
      +--rw mac-entry* [sequence-id]
        +--rw sequence-id  -> ../config/sequence-id
        +--rw config
          | +--rw sequence-id?  uint32
          +--ro state
          | +--ro sequence-id?  uint32
        +--rw mac
          +--rw entry* [action mac-addr mac-addr-mask]
            +--rw action      -> ../config/action
            +--rw mac-addr     -> ../config/mac-addr
            +--rw mac-addr-mask -> ../config/mac-addr
            +--rw config
              | +--rw action?      ipi-mac-list-types:mac_list_action_t
              | +--rw mac-addr?     ipi-mac-list-types:maclist_mac_addr_t
              | +--rw mac-addr-mask? ipi-mac-list-types:maclist_mac_mask_t
            +--ro state
              +--ro action?      ipi-mac-list-types:mac_list_action_t
              +--ro mac-addr?     ipi-mac-list-types:maclist_mac_addr_t
              +--ro mac-addr-mask? ipi-mac-list-types:maclist_mac_mask_t

```

ipi-management-server

```
+--rw netconf-server
| +--rw callhomes {feature-list:HAVE_NETCONF}?
| | +--rw callhome* [vrf-name]
| |   +--rw vrf-name      -> ../config/vrf-name
| |   +--rw config
| |     | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| |     {feature-list:HAVE_VRF}?
| |     | +--rw feature-enabled  empty
| |     | +--ro state
| |     | +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| |     {feature-list:HAVE_VRF}?
| |     | +--ro feature-enabled  empty
| |   +--rw netconf-clients
| |     | +--rw netconf-client* [name]
| |     |   +--rw name      -> ../config/name
| |     |   +--rw config
| |     |     | +--rw name?    string
| |     |     | +--rw address  string
| |     |     | +--rw port?    inet:port-number
| |     |     +--ro state
| |     |       +--ro name?    string
| |     |       +--ro address  string
| |     |       +--ro port?    inet:port-number
| |   +--rw reconnect
| |     | +--rw config!
| |     | | +--rw enable          empty
| |     | | +--rw retry-max-attempts?  uint8
| |     | | +--rw retry-interval?    uint32
| |     | +--ro state
| |     |   +--ro enable          empty
| |     |   +--ro retry-max-attempts?  uint8
| |     |   +--ro retry-interval?    uint32
| |   +--rw debug
```

```

| |   +--rw config
| |   | +--rw enable?  empty
| |   +--ro state
| |       +--ro enable?  empty
| +--rw netconf-translation {feature-list:HAVE_NETCONF,feature-list:HAVE_NETCONF_OC_TRANSLATION}?
| | +--rw config
| | | +--rw translation-mode?  ipi-management-server-types:management_server_translation_type_t
| | +--ro state
| |   +--ro translation-mode?  ipi-management-server-types:management_server_translation_type_t
| +--rw vrfs {feature-list:HAVE_NETCONF,feature-list:HAVE_VRF}?
| | +--rw vrf* [vrf-name]
| |   +--rw vrf-name          -> ../config/vrf-name
| |   +--rw config
| | | +--rw vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
| |   +--ro state
| | | +--ro vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
| |   +--rw netconf-ssh-config
| | | +--rw config
| | | | +--rw feature-netconf-ssh?    empty {feature-list:HAVE_NETCONF}?
| | | | +--rw ssh-port?              uint32 {feature-list:HAVE_NETCONF}?
| | | | +--rw disable-default-ssh-port?  empty {feature-list:HAVE_NETCONF}?
| | | +--ro state
| | |   +--ro feature-netconf-ssh?    empty {feature-list:HAVE_NETCONF}?
| | |   +--ro ssh-port?              uint32 {feature-list:HAVE_NETCONF}?
| | |   +--ro disable-default-ssh-port?  empty {feature-list:HAVE_NETCONF}?
| | +--rw netconf-tls-config
| |   +--rw config
| | | +--rw feature-netconf-tls?  empty {feature-list:HAVE_NETCONF}?
| | | +--rw tls-port?            uint32 {feature-list:HAVE_NETCONF}?
| |   +--ro state
| | | +--ro feature-netconf-tls?  empty {feature-list:HAVE_NETCONF}?
| | | +--ro tls-port?            uint32 {feature-list:HAVE_NETCONF}?
| +--rw netconf-tls-default-instance {feature-list:HAVE_NETCONF}?
| | +--rw config
| | | +--rw netconf-tls-disable-default-instance?  empty

```

```

| | +--ro state
| |   +--ro netconf-tls-disable-default-instance?  empty
| +--rw netconf-ssh-default-instance {feature-list:HAVE_NETCONF}?
| | +--rw config {feature-list:HAVE_NETCONF}?
| | | +--rw netconf-ssh-disable-default-instance?  empty {feature-list:HAVE_NETCONF}?
| | +--ro state
| |   +--ro netconf-ssh-disable-default-instance?  empty {feature-list:HAVE_NETCONF}?
| +--rw notification-cache {feature-list:HAVE_NETCONF}?
| | +--rw config!
| | | +--rw feature-enabled          empty
| | | +--rw max-cache-notifications? uint16
| | | +--rw cache-period?           uint32
| | +--ro state
| |   +--ro feature-enabled          empty
| |   +--ro max-cache-notifications? uint16
| |   +--ro cache-period?           uint32
| +--rw commit-history
| | +--rw config
| | | +--rw disable-commit-history?  empty
| | +--ro state
| |   +--ro disable-commit-history?  empty
| +--rw bulk-config
|   +--rw config
|   | +--rw bulk-config-cpu-limit-enabled?  empty
|   +--ro state
|     +--ro bulk-config-cpu-limit-enabled?  empty
+--rw management-server
  +--rw module-notifications
    +--rw module-notification* [module-name]
      +--rw module-name  -> ../config/module-name
      +--rw config
        | +--rw module-name?  ipi-management-server-notification-types:notif_module_names_t
        | +--rw enable       cml-data-types:cml_enable_disable_t
        | +--rw severity?    cml-data-types:cml_notif_severity_t
        +--ro state
          +--ro module-name?  ipi-management-server-notification-types:notif_module_names_t

```

```
+--ro enable      cml-data-types:cml_enable_disable_t
+--ro severity?   cml-data-types:cml_notif_severity_t
```

notifications:

```
+---n suppress-bulk-notification
+--ro severity?   cml-data-types:cml_notif_severity_t
+--ro eventClass? cml-data-types:cml_notif_class_t
+--ro message?    string
```

ipi-mcec

```
+--rw mcec
| +--rw debug
| | +--rw config
| | | +--rw options? ipi-mcec-types:mcec_debug_t
| | +--ro state
| | +--ro options?      ipi-mcec-types:mcec_debug_t
| | +--ro terminal-debug-status? ipi-mcec-types:mcec_debug_t
+--rw domain
| +--rw config
| | +--rw mcec-strict-active-standby? empty
| | +--rw system-number?      uint8
| | +--rw delay-time?         uint32
| | +--rw address?            ipi-mcec-types:mcec_domain_addr_t
| | +--rw priority?           uint16
| | +--rw hello-timeout?      ipi-mcec-types:mcec_hello_t
| +--ro state
| | +--ro mcec-strict-active-standby? empty
| | +--ro system-number?         uint8
| | +--ro delay-time?            uint32
| | +--ro address?               ipi-mcec-types:mcec_domain_addr_t
| | +--ro priority?              uint16
| | +--ro hello-timeout?         ipi-mcec-types:mcec_hello_t
| | +--ro domain-sync?           ipi-mcec-types:mcec_domain_sync_status_t
```



```

|   +-ro domain-adjacency?      ipi-mcec-types:mcec_domain_adjacency_state_t
|   +-ro mcec-invalid-pdu-rx?   uint32
+--ro mcec-instance* [mlag-id]
|   +-ro mlag-id    -> ../state/mlag-id
|   +-ro state
|   |   +-ro mlag-id?          uint16
|   |   +-ro interface?       string
|   |   +-ro administrative-aggregation-key?   uint16
|   |   +-ro operational-aggregation-key?      uint16
|   |   +-ro physical-properties-digest?       string
|   |   +-ro operational-partner-aggregation-key? uint16
|   |   +-ro partner-system?      string
|   |   +-ro partner-system-priority?   uint16
|   |   +-ro member-interface-bandwidth?   string
|   |   +-ro member-interface-state?      ipi-mcec-types:mcec_if_state_t
|   |   +-ro mlag-sync?            ipi-mcec-types:mcec_sync_state_t
|   |   +-ro flood-enabled?        ipi-mcec-types:mcec_flood_state_t
|   |   +-ro mlag-port-state?       ipi-mcec-types:mcec_if_state_t
|   |   +-ro mlag-interface-state?    ipi-mcec-types:mcec_if_state_t
|   |   +-ro aggregation-mapped?     boolean
|   |   +-ro mlag-bandwidth?        string
|   |   +-ro info-receive-state?     ipi-mcec-types:mcec_info_receive_state_t
|   |   +-ro info-periodic-tx-state? ipi-mcec-types:mcec_info_periodic_tx_state_t
|   |   +-ro valid-info-pdu-rx?      uint32
|   |   +-ro valid-info-pdu-tx?      uint32
|   +-ro neighbor
|   +-ro state
|       +-ro administrative-aggregation-key?   uint16
|       +-ro physical-properties-digest?       string
|       +-ro operational-partner-aggregation-key? uint16
|       +-ro partner-system?      string
|       +-ro partner-system-priority?   uint16
|       +-ro member-interface-bandwidth?   string
|       +-ro member-interface-state?      ipi-mcec-types:mcec_if_state_t
|       +-ro mlag-sync?            ipi-mcec-types:mcec_sync_state_t
+--rw intra-domain

```

```

| +--rw peer-link
| | +--rw config
| | | +--rw interface? -> /ipi-interface:interfaces/interface/name
| | +--ro state
| |   +--ro interface? -> /ipi-interface:interfaces/interface/name
| +--rw peer-address
| | +--rw config!
| | | +--rw peer-address    inet:ipv4-address
| | | +--rw local-address   inet:ipv4-address
| | | +--rw vrf             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
| | +--ro state
| |   +--ro peer-address    inet:ipv4-address
| |   +--ro local-address   inet:ipv4-address
| |   +--ro vrf             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
| +--ro neighbor-info
| | +--ro state
| |   +--ro domain-address?    ipi-mcec-types:mcec_domain_addr_t
| |   +--ro domain-priority?   uint32
| |   +--ro domain-system-number? uint16
| |   +--ro domain-sync?       ipi-mcec-types:mcec_domain_sync_status_t
| |   +--ro hello-timeout?     uint16
| +--ro intra-domain-peer-info
|   +--ro state
|     +--ro mcec-hello-periodic-tx-state? ipi-mcec-types:mcec_hello_periodic_tx_state_t
|     +--ro mcec-valid-hello-pdu-rx?      uint32
|     +--ro mcec-valid-hello-pdu-tx?      uint32
|     +--ro mcec-valid-info-pdu-rx?       uint32
|     +--ro mcec-valid-info-pdu-tx?       uint32
|     +--ro mcec-valid-mac-sync-pdu-rx?   uint32
|     +--ro mcec-valid-mac-sync-pdu-tx?   uint32
+--ro mac-sync
| +--ro local-mac-table* [mac-address vlan-id]
| | +--ro mac-address -> ../state/mac-address
| | +--ro vlan-id     -> ../state/vlan-id
| | +--ro state

```

```

| | +--ro mac-address?    string
| | +--ro vlan-id?       uint16
| | +--ro output-interface? string
| +--ro remote-mac-table* [mac-address vlan-id]
| +--ro mac-address    -> ../state/mac-address
| +--ro vlan-id        -> ../state/vlan-id
| +--ro state
|   +--ro mac-address?    string
|   +--ro vlan-id?       uint16
|   +--ro output-interface? string
+--ro stp-sync
| +--ro state
| | +--ro bridge-priority?    uint16
| | +--ro path-cost-method?   uint8
| | +--ro domain-digest?     string
| | +--ro neighbor-domain-digest? string
| +--ro mlag-interface-sync-entry* [mlag-id]
| +--ro mlag-id    -> ../state/mlag-id
| +--ro state
|   +--ro mlag-id?          uint16
|   +--ro port-priority?    uint16
|   +--ro path-cost?        uint32
|   +--ro interface-digest? string
|   +--ro neighbor-interface-digest? string
+--rw mlag-interfaces
  +--rw mlag-interface* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?      -> /ipi-interface:interfaces/interface/name
      | +--rw interface-mode? ipi-mcec-types:mcec_mode_type_t
      +--ro state
        | +--ro name?      -> /ipi-interface:interfaces/interface/name
        | +--ro interface-mode? ipi-mcec-types:mcec_mode_type_t
      +--rw switchover-type
        +--rw config
          | +--rw revertive-timer?    uint16

```

```

| +--rw enable-non-revertive? empty
+--ro state
| +--ro revertive-timer? uint16
| +--ro enable-non-revertive? empty

```

rpcs:

```

+---x mcec-terminal-debug-on {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?
| +---w input
|   +---w terminal-debug-options ipi-mcec-types:mcec_debug_t
+---x mcec-terminal-debug-off {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?
| +---w input
|   +---w terminal-debug-options ipi-mcec-types:mcec_debug_t
+---x clear-mcec-statistics {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?

```

ipi-mlag

```

+--ro mlag
| +--ro mlag-interface* [mlag-id]
|   +--ro mlag-id -> ../state/mlag-id
|   +--ro state
|     +--ro mlag-id? uint16
|     +--ro interface-flags? ipi-mlag-types:mlag_interface_flags_t
|     +--ro bandwidth? string
+--ro intra-domain-port
| +--ro state
|   +--ro interface-name? string
|   +--ro interface-index? uint32
|   +--ro interface-type? ipi-mlag-types:mlag_idp_interface_type_t
|   +--ro bridge-name? string
+--ro mstp-sync-info
| +--ro state
|   +--ro bridge-priority? uint16
|   +--ro path-cost-method? uint8
|   +--ro num-of-interfaces? uint16
|   +--ro domain-digest* string

```

```

+--ro interface-sync-info* [interface-mlag-id]
  +--ro interface-mlag-id  -> ../state/interface-mlag-id
  +--ro state
    +--ro interface-mlag-id?  uint16
    +--ro interface-priority? uint16
    +--ro path-cost?          uint32
    +--ro interface-digest*   string

```

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw mlag-aggregation!
  +--rw config!
  | +--rw mlag-id  uint16
  +--ro state
    +--ro mlag-id  uint16

```

ipi-mld-snooping

```

+--rw mld-snooping
  +--rw global
  | +--rw config
  | | +--rw disable-mld-snooping?    empty
  | | +--rw disable-report-suppression? empty
  | +--ro state
  |   +--ro disable-mld-snooping?    empty
  |   +--ro disable-report-suppression? empty
  +--rw debug
  | +--rw config
  | | +--rw options? ipi-mld-snooping-types:mld_snoop_debug_options_t
  | +--ro state
  |   +--ro options?          ipi-mld-snooping-types:mld_snoop_debug_options_t
  |   +--ro terminal-debug-status? ipi-mld-snooping-types:mld_snoop_debug_options_t
  +--rw interfaces
    +--rw interface* [name]

```

```

+--rw name    -> ../config/name
+--rw config
| +--rw name?          -> /ipi-interface:interfaces/interface/name
| +--rw mld-snooping?   cml-data-types:cml_enable_disable_t
| +--rw enable-fast-leave?  empty
| +--rw report-suppression? cml-data-types:cml_enable_disable_t
| +--rw mrouter-interface-name* -> /ipi-interface:interfaces/interface/name
| +--rw enable-querier?    empty
+--ro state
  +--ro name?          -> /ipi-interface:interfaces/interface/name
  +--ro mld-snooping?   cml-data-types:cml_enable_disable_t
  +--ro enable-fast-leave?  empty
  +--ro report-suppression? cml-data-types:cml_enable_disable_t
  +--ro mrouter-interface-name* -> /ipi-interface:interfaces/interface/name
  +--ro enable-querier?    empty

```

rpcs:

```

+---x mld-snooping-terminal-debug-on {feature-list:HAVE_MLD_SNOOP}?
| +---w input
|   +---w terminal-debug-options  ipi-mld-snooping-types:mld_snoop_debug_options_t
+---x mld-snooping-terminal-debug-off {feature-list:HAVE_MLD_SNOOP}?
| +---w input
|   +---w terminal-debug-options  ipi-mld-snooping-types:mld_snoop_debug_options_t
+---x mld-snooping-clear-group-on-interface {feature-list:HAVE_MLD_SNOOP}?
| +---w input
|   +---w group-address  string
|   +---w interface-name string
+---x mld-snooping-clear-all-groups-on-interface {feature-list:HAVE_MLD_SNOOP}?
| +---w input
|   +---w interface-name string
+---x mld-snooping-clear-group {feature-list:HAVE_MLD_SNOOP}?
| +---w input
|   +---w group-address  string
+---x mld-snooping-clear-all-groups {feature-list:HAVE_MLD_SNOOP}?

```

ipi-mld

```

+--rw mld
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name          -> ../config/vrf-name
    |   +--rw config
    |     | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     | +--rw disable-ssm-map? empty
    |     | +--ro state
    |     |   +--ro vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     |   +--ro disable-ssm-map? empty
    |     | +--rw group-membership-control
    |     |   +--rw config
    |     |     | +--rw member-limit?      uint32
    |     |     | +--rw limit-exception-acl? string
    |     |     | +--ro state
    |     |     |   +--ro member-limit?      uint32
    |     |     |   +--ro limit-exception-acl? string
    |     |     |   +--ro current-states-count? yang:counter32
    |     |   +--rw ssm
    |     |     | +--rw static-mappings
    |     |     |   +--rw static-mapping* [group-ranges-acl source]
    |     |     |     +--rw group-ranges-acl -> ../config/group-ranges-acl
    |     |     |     +--rw source          -> ../config/source
    |     |     |     +--rw config
    |     |     |       | +--rw group-ranges-acl? string
    |     |     |       | +--rw source?      inet:ipv6-address
    |     |     |       | +--ro state
    |     |     |       |   +--ro group-ranges-acl? string
    |     |     |       |   +--ro source?      inet:ipv6-address
    |     |   +--rw debug
    |     |     +--rw config
    |     |       | +--rw debug-options? ipi-mld-types:mld_debug_options_t
    |     |       | +--ro state
    |     |       |   +--ro debug-options?      ipi-mld-types:mld_debug_options_t

```

```

|      +--ro terminal-debug-status-on?  ipi-mld-types:mld_debug_options_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name                -> ../config/name
|   +--rw config
|     | +--rw name?            -> /ipi-interface:interfaces/interface/name
|     | +--rw enabled?         empty
|     | +--rw last-member-query-count?  uint8
|     | +--rw last-member-query-interval? uint16
|     | +--rw querier-timeout?    uint16
|     | +--rw query-interval?     uint16
|     | +--rw query-max-response-time?  uint8
|     | +--rw startup-query-interval?  uint16
|     | +--rw startup-query-count?    uint8
|     | +--rw robustness-variable?    uint8
|     | +--rw version?              uint8
|   +--ro state
|     | +--ro counters
|     | | +--ro v1-reports-received?  yang:counter32
|     | | +--ro v2-reports-received?  yang:counter32
|     | | +--ro v1-leaves-received?   yang:counter32
|     | | +--ro current-group-records? yang:counter32
|     | +--ro internet-address?       inet:ipv6-address
|     | +--ro oper-status?             ipi-mld-types:mld_if_oper_status_t
|     | +--ro host-version?            uint8
|     | +--ro is-querier?              boolean
|     | +--ro querying-router?         inet:ipv6-address
|     | +--ro group-membership-interval? uint32
|     | +--ro name?                    -> /ipi-interface:interfaces/interface/name
|     | +--ro enabled?                 empty
|     | +--ro last-member-query-count?  uint8
|     | +--ro last-member-query-interval? uint16
|     | +--ro querier-timeout?          uint16
|     | +--ro query-interval?           uint16
|     | +--ro query-max-response-time?  uint8
|     | +--ro startup-query-interval?   uint16

```

```

| | +--ro startup-query-count?      uint8
| | +--ro robustness-variable?      uint8
| | +--ro version?                  uint8
| +--rw proxy
| | +--rw config
| | | +--rw enable-proxy-service?    empty
| | | +--rw mroute-proxy-interface?  string
| | | +--rw unsolicited-report-interval? uint16
| | +--ro state
| |   +--ro enable-proxy-service?    empty
| |   +--ro mroute-proxy-interface?  string
| |   +--ro unsolicited-report-interval? uint16
| |   +--ro oper-status?              ipi-mld-types:mld_proxy_if_oper_status_t
| |   +--ro upstream-interface?      string
| |   +--ro mcast-groups-count?      yang:counter32
| +--rw group-membership-control
| | +--rw config
| | | +--rw access-group-name?        string
| | | +--rw immediate-leave-groups-list? string
| | | +--rw member-limit?             uint32
| | | +--rw limit-exception-acl?      string
| | +--ro state
| |   +--ro access-group-name?        string
| |   +--ro immediate-leave-groups-list? string
| |   +--ro member-limit?             uint32
| |   +--ro limit-exception-acl?      string
| +--rw asm-static-groups
| | +--rw asm-static-group* [group-address]
| |   +--rw group-address -> ../config/group-address
| |   +--rw config
| |     | +--rw group-address? inet:ipv6-address
| |     +--ro state
| |       +--ro group-address? inet:ipv6-address
| +--rw ssm-static-groups
|   +--rw ssm-static-group* [group-address source]
|     +--rw group-address -> ../config/group-address

```

```

|      +--rw source      -> ../config/source
|      +--rw config
|      | +--rw group-address?  inet:ipv6-address
|      | +--rw source?        ipi-mld-types:mld_static_ssm_source_t
|      +--ro state
|      +--ro group-address?  inet:ipv6-address
|      +--ro source?        ipi-mld-types:mld_static_ssm_source_t
+--ro group-membership-tree
+--ro mld-instances
+--ro mld-instance* [vrf-name]
+--ro vrf-name      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
+--ro interfaces
+--ro interface* [if-name]
+--ro if-name       -> /ipi-interface:interfaces/interface/name
+--ro member-groups
| +--ro member-group* [group-address]
|   +--ro group-address  -> ../state/group-address
|   +--ro state
|   | +--ro group-address?  inet:ipv6-address
|   | +--ro dynamic-remote? empty
|   | +--ro static-group?   empty
|   | +--ro ssm-mapped?     empty
|   | +--ro static-source?   empty
|   | +--ro up-time?        string
|   | +--ro group-mode?     ipi-mld-types:mld_ssm_group_mode_t
|   | +--ro expiry?         string
|   | +--ro last-reporter?   inet:ipv6-address
|   +--ro include-sources
|   | +--ro include-source* [source-address]
|   |   +--ro source-address  -> ../state/source-address
|   |   +--ro state
|   |     +--ro source-address?  inet:ipv6-address
|   |     +--ro dynamic-remote? empty
|   |     +--ro static-source?   empty
|   |     +--ro ssm-mapped?     empty
|   |     +--ro up-time?        string

```

```

| |   +--ro expiry?      string
| |   +--ro is-forwarded? ipi-mld-types:mld_yes_no_t
|   +--ro exclude-sources
|     +--ro exclude-source* [source-address]
|       +--ro source-address -> ../state/source-address
|       +--ro state
|         +--ro source-address? inet:ipv6-address
|         +--ro dynamic-remote? empty
|         +--ro static-source?  empty
|         +--ro ssm-mapped?     empty
|         +--ro up-time?       string
|         +--ro expiry?       string
|         +--ro is-forwarded?  ipi-mld-types:mld_yes_no_t
+--ro proxy-groups
  +--ro proxy-group* [group-address]
    +--ro group-address -> ../state/group-address
    +--ro state
      +--ro group-address?  inet:ipv6-address
      +--ro proxy-interface? string
      +--ro group-mode?     ipi-mld-types:mld_ssm_group_mode_t
      +--ro oper-state?     ipi-mld-types:mld_if_state_t
      +--ro membership-state? ipi-mld-types:mld_proxy_grp_membership_state_t
      +--ro multicast-sources* inet:ipv6-address

```

rpcs:

```

+---x mld-terminal-debug-on {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
| +---w input
|   +---w vrf-name?      string
|   +---w term-debug-options ipi-mld-types:mld_debug_options_t
+---x mld-terminal-debug-off {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
| +---w input
|   +---w vrf-name?      string
|   +---w term-debug-options ipi-mld-types:mld_debug_options_t
+---x mld-clear-all-groups {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
| +---w input
|   +---w vrf-name?      string

```

```

|   +---w clear-all    empty
+---x mld-clear-group-on-interface {feature-list:HAVE_MCAST_IPV6,feature-
list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
|   +---w input
|   +---w vrf-name?     string
|   +---w if-name       string
|   +---w group-address  inet:ipv6-address
+---x mld-clear-all-groups-on-interface {feature-list:HAVE_MCAST_IPV6,feature-
list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
|   +---w input
|   +---w vrf-name?     string
|   +---w if-name       string
+---x mld-clear-group {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
+---w input
+---w vrf-name?         string
+---w group-address     inet:ipv6-address

```

ipi-mpls-bfd

augment /ipi-bfd:bfd:

```

+--rw mpls-lsp
+--rw session-groups
+--rw session-group* [lsp-type fec-address]
+--rw lsp-type         -> ../config/lsp-type
+--rw fec-address       -> ../config/fec-address
+--rw config
| +--rw lsp-type?      ipi-bfd-types:mpls_bfd_lsp_type_t
| +--rw fec-address?   cml-data-types:cml_ipv4_addr_prefix_t
+--ro state
| +--ro lsp-type?      ipi-bfd-types:mpls_bfd_lsp_type_t
| +--ro fec-address?   cml-data-types:cml_ipv4_addr_prefix_t
+--rw session-attributes
+--rw config
| +--rw lsp-ping-interval? uint16

```

```

| +--rw admin-down?      empty
+--ro state
| +--ro lsp-ping-interval? uint16
| +--ro admin-down?      empty
+--rw intervals
  +--rw interval* [minimum-tx minimum-rx detection-multiplier]
    +--rw minimum-tx      -> ../config/minimum-tx
    +--rw minimum-rx      -> ../config/minimum-rx
    +--rw detection-multiplier -> ../config/detection-multiplier
    +--rw config
      | +--rw minimum-tx?      uint32
      | +--rw minimum-rx?      uint32
      | +--rw detection-multiplier? uint8
      +--ro state
        +--ro minimum-tx?      uint32
        +--ro minimum-rx?      uint32
        +--ro detection-multiplier? uint8

```

augment /ipi-bfd:bfd:

```

+--rw mpls-all-lsps
  +--rw mpls-all-lsp* [lsp-type]
    +--rw lsp-type      -> ../config/lsp-type
    +--rw config
      | +--rw lsp-type? ipi-bfd-types:mpls_bfd_all_lsp_type_t
      +--ro state
        | +--ro lsp-type? ipi-bfd-types:mpls_bfd_all_lsp_type_t
    +--rw session-attributes
      +--rw config
        | +--rw lsp-ping-interval? uint16
        | +--rw admin-down?      empty
        +--ro state
          | +--ro lsp-ping-interval? uint16
          | +--ro admin-down?      empty
      +--rw intervals
        +--rw interval* [minimum-tx minimum-rx detection-multiplier]
          +--rw minimum-tx      -> ../config/minimum-tx
          +--rw minimum-rx      -> ../config/minimum-rx

```

```

+--rw detection-multiplier -> ../config/detection-multiplier
+--rw config
| +--rw minimum-tx?      uint32
| +--rw minimum-rx?      uint32
| +--rw detection-multiplier? uint8
+--ro state
  +--ro minimum-tx?      uint32
  +--ro minimum-rx?      uint32
  +--ro detection-multiplier? uint8

```

augment /ipi-bfd:bfd:

```

+--rw mpls-tunnels
+--rw mpls-tunnel* [lsp-type tunnel-name]
  +--rw lsp-type      -> ../config/lsp-type
  +--rw tunnel-name    -> ../config/tunnel-name
  +--rw config
  | +--rw lsp-type?    ipi-bfd-types:mpls_bfd_te_type_t
  | +--rw tunnel-name? string
  +--ro state
  | +--ro lsp-type?    ipi-bfd-types:mpls_bfd_te_type_t
  | +--ro tunnel-name? string
  +--rw session-attributes
  +--rw config
  | +--rw lsp-ping-interval? uint16
  | +--rw admin-down?      empty
  +--ro state
  | +--ro lsp-ping-interval? uint16
  | +--ro admin-down?      empty
  +--rw intervals
  +--rw interval* [minimum-tx minimum-rx detection-multiplier]
    +--rw minimum-tx      -> ../config/minimum-tx
    +--rw minimum-rx      -> ../config/minimum-rx
    +--rw detection-multiplier -> ../config/detection-multiplier
    +--rw config
    | +--rw minimum-tx?      uint32
    | +--rw minimum-rx?      uint32
    | +--rw detection-multiplier? uint8

```

```

+--ro state
  +--ro minimum-tx?      uint32
  +--ro minimum-rx?      uint32
  +--ro detection-multiplier? uint8

```

ipi-mpls-rib

augment /ipi-mpls:mpls:

```

+--rw rib
  +--ro global-ftn-table
    | +--ro ipv4-ftn-entry* [fec-prefix owner lsp-type tunnel-id] {feature-list:HAVE_VRF}?
    | | +--ro fec-prefix    -> ../state/fec-prefix
    | | +--ro owner        -> ../state/owner
    | | +--ro lsp-type     -> ../state/lsp-type
    | | +--ro tunnel-id    -> ../state/tunnel-id
    | | +--ro nhlfе-entry* [out-interface out-label administrative-status xc-index xc-type nhlfе-index]
    | | | +--ro out-interface    -> ../state/out-interface
    | | | +--ro out-label       -> ../state/out-label
    | | | +--ro administrative-status -> ../state/administrative-status
    | | | +--ro xc-index        -> ../state/xc-index
    | | | +--ro xc-type        -> ../state/xc-type
    | | | +--ro nhlfе-index     -> ../state/nhlfе-index
    | | | +--ro state
    | | | | +--ro out-interface?    -> /ipi-interface:interfaces/interface/name
    | | | | +--ro out-label?       uint32
    | | | | +--ro nexthop-address?  inet:ipv4-address
    | | | | +--ro nhlfе-type?      ipi-mpls-types:mpls_rib_nhlfе_type_t
    | | | | +--ro xc-index?       uint32
    | | | | +--ro xc-type?       ipi-mpls-types:mpls_rib_xc_type_t
    | | | | +--ro nhlfе-index?    uint32
    | | | | +--ro administrative-status? ipi-mpls-types:mpls_rib_entry_admin_status_t
    | | | | +--ro oper-status?     ipi-mpls-types:mpls_rib_entry_oper_status_t
    | | | | +--ro nhlfе-owner?     ipi-mpls-types:mpls_rib_entry_owner_t
    | | | | +--ro is-stale?       boolean
    | | | | +--ro label-op-code?  ipi-mpls-types:mpls_rib_label_op_code_t

```

```

| | | +--ro in-interface?      string
| | | +--ro in-label?         uint32
| | | +--ro tunnel-name?      string
| | | +--ro transport-out-intf? string
| | +--ro state
| |   +--ro fec-prefix?       cml-data-types:cml_ipv4_addr_prefix_t
| |   +--ro owner?            ipi-mpls-types:mpls_rib_entry_owner_t
| |   +--ro lsp-type?         ipi-mpls-types:mpls_rib_lsp_type_t
| |   +--ro unique-nhlfe-ix?   uint32
| |   +--ro ftn-index?        uint32
| |   +--ro is-primary?       boolean
| |   +--ro route-distance?    uint8
| |   +--ro redirect-action-type? ipi-mpls-types:mpls_rib_action_type_t
| |   +--ro qos-exp-bits?      uint32
| |   +--ro is-entropy-label?  boolean
| |   +--ro in-dscp-class-name? string
| |   +--ro tunnel-id?         uint32
| |   +--ro protected-lsp-id?  uint32
| |   +--ro qos-resource-id?   uint32
| |   +--ro color?            uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| |   +--ro tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING}?
| |   +--ro rsvp-multipath-name? string {feature-list:HAVE_RSVP_MULTIPATH}?
| |   +--ro row-status?       string
| |   +--ro state?            string
| |   +--ro create-time?       cml-data-types:cml_line_t
| |   +--ro up-time?           cml-data-types:cml_line_t
| |   +--ro last-update?       cml-data-types:cml_line_t
| |   +--ro description?      string
| +--ro ipv6-ften-entry* [fec-prefix6 owner lsp-type tunnel-id] {feature-list:HAVE_IPV6}?
|   +--ro fec-prefix6  -> ../state/fec-prefix6
|   +--ro owner        -> ../state/owner
|   +--ro lsp-type     -> ../state/lsp-type
|   +--ro tunnel-id    -> ../state/tunnel-id
|   +--ro nhlfe-entry* [out-interface out-label administrative-status]
|     +--ro out-interface -> ../state/out-interface
|     +--ro out-label     -> ../state/out-label

```

```

| | +--ro administrative-status -> ../state/administrative-status
| | +--ro state
| |   +--ro out-interface? -> /ipi-interface:interfaces/interface/name
| |   +--ro out-label?      uint32
| |   +--ro nexthop-address?  inet:ip-address
| |   +--ro nhlfe-type?      ipi-mpls-types:mpls_rib_nhlfe_type_t
| |   +--ro administrative-status? ipi-mpls-types:mpls_rib_entry_admin_status_t
| |   +--ro oper-status?      ipi-mpls-types:mpls_rib_entry_oper_status_t
| |   +--ro nhlfe-owner?      ipi-mpls-types:mpls_rib_entry_owner_t
| |   +--ro is-stale?         boolean
| |   +--ro label-op-code?    ipi-mpls-types:mpls_rib_label_op_code_t
| |   +--ro in-interface?     string
| |   +--ro in-label?        uint32
| +--ro state
|   +--ro fec-prefix6?      cml-data-types:cml_ipv6_prefix_t
|   +--ro owner?            ipi-mpls-types:mpls_rib_entry_owner_t
|   +--ro lsp-type?         ipi-mpls-types:mpls_rib_lsp_type_t
|   +--ro unique-nhlfe-ix?  uint32
|   +--ro ftn-index?        uint32
|   +--ro is-primary?       boolean
|   +--ro route-distance?   uint8
|   +--ro redirect-action-type? ipi-mpls-types:mpls_rib_action_type_t
|   +--ro qos-exp-bits?     uint32
|   +--ro is-entropy-label? boolean
|   +--ro in-dscp-class-name? string
|   +--ro tunnel-id?        uint32
|   +--ro protected-lsp-id? uint32
|   +--ro qos-resource-id?   uint32
|   +--ro color?            uint32 {feature-list:HAVE_SERVICE_MAPPING}?
|   +--ro tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING}?
|   +--ro rsvp-multipath-name? string {feature-list:HAVE_RSVP_MULTIPATH}?
|   +--ro row-status?       string
|   +--ro state?            string
|   +--ro create-time?      cml-data-types:cml_line_t
|   +--ro up-time?          cml-data-types:cml_line_t
|   +--ro last-update?      cml-data-types:cml_line_t

```

```

|   +--ro description?      string
+--ro ilm-table
| +--ro ip-ilm-entry* [in-interface in-label] {feature-list:HAVE_VRF}?
|   +--ro in-interface   -> ../state/in-interface
|   +--ro in-label       -> ../state/in-label
|   +--ro nhlfe-entry* [out-interface out-label xc-index xc-type nhlfe-index]
|   | +--ro out-interface -> ../state/out-interface
|   | +--ro out-label     -> ../state/out-label
|   | +--ro xc-index      -> ../state/xc-index
|   | +--ro xc-type       -> ../state/xc-type
|   | +--ro nhlfe-index   -> ../state/nhlfe-index
|   | +--ro state
|   |   +--ro out-interface? -> /ipi-interface:interfaces/interface/name
|   |   +--ro out-label?     uint32
|   |   +--ro xc-index?      uint32
|   |   +--ro xc-type?       ipi-mpls-types:mpls_rib_xc_type_t
|   |   +--ro nexthop-address? inet:ip-address
|   |   +--ro nhlfe-owner?   ipi-mpls-types:mpls_rib_entry_owner_t
|   |   +--ro nhlfe-index?   uint32
|   |   +--ro label-op-code? ipi-mpls-types:mpls_rib_label_op_code_t
|   |   +--ro tunnel-name?   string
|   |   +--ro transport-out-intf? string
|   +--ro state
|     +--ro in-interface?   -> /ipi-interface:interfaces/interface/name
|     +--ro in-label?       uint32
|     +--ro vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|     +--ro owner?         ipi-mpls-types:mpls_rib_entry_owner_t
|     +--ro ilm-index?     uint32
|     +--ro is-stitched-to-ftn? boolean
|     +--ro is-installed-in-fib? boolean
|     +--ro is-selected?   boolean
|     +--ro is-stale?      boolean
|     +--ro fec-prefix?    cml-data-types:cml_ip_prefix_t
|     +--ro label-op-code? ipi-mpls-types:mpls_rib_label_op_code_t
|     +--ro pseudowire-id? uint32
|     +--ro evpn-id?       uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?

```

```

+--ro rsvp-multipath-table {feature-list:HAVE_RSVP_MULTIPATH}?
| +--ro rsvp-multipath-entry* [multipath-identifier]
|   +--ro multipath-identifier  -> ../state/multipath-identifier
|   +--ro state
|     +--ro multipath-identifier?  uint16
|     +--ro multipath-name?        string
|     +--ro multipath-nhlfe-index? uint32
|     +--ro fec-prefix?            cml-data-types:cml_ipv4_prefix_t
|     +--ro active-member-count?  uint16
+--rw map-route
| +--rw static-ipv4-map-routes
|   +--rw static-ipv4-map-route* [route-prefix]
|     +--rw route-prefix  -> ../config/route-prefix
|     +--rw config
|       | +--rw route-prefix? cml-data-types:cml_ipv4_prefix_t
|       | +--rw mapped-fec    cml-data-types:cml_ipv4_prefix_t
|       +--ro state
|         +--ro route-prefix? cml-data-types:cml_ipv4_prefix_t
|         +--ro mapped-fec    cml-data-types:cml_ipv4_prefix_t
+--rw static-lsps
| +--rw ipv4-static-ftn-entries
| | +--rw ipv4-static-ftn-entry* [fec-prefix pushed-label nexthop-ip-address out-interface-name]
| |   +--rw fec-prefix      -> ../config/fec-prefix
| |   +--rw pushed-label    -> ../config/pushed-label
| |   +--rw nexthop-ip-address -> ../config/nexthop-ip-address
| |   +--rw out-interface-name -> ../config/out-interface-name
| |   +--rw config
| |     | +--rw fec-prefix?      cml-data-types:cml_ipv4_prefix_t
| |     | +--rw pushed-label?    uint32
| |     | +--rw nexthop-ip-address? inet:ipv4-address
| |     | +--rw out-interface-name? -> /ipi-interface:interfaces/interface/name
| |     +--ro state
| |       +--ro fec-prefix?      cml-data-types:cml_ipv4_prefix_t
| |       +--ro pushed-label?    uint32
| |       +--ro nexthop-ip-address? inet:ipv4-address
| |       +--ro out-interface-name? -> /ipi-interface:interfaces/interface/name

```

```

| +--rw static-ftn-tunnels
| | +--rw static-ftn-tunnel* [tunnel-id fec-prefix pushed-label nexthop-ip-address out-interface-name is-primary]
{feature-list:NOT_HAVE_MPLS_TUNNEL}?
| | +--rw tunnel-id      -> ../config/tunnel-id
| | +--rw fec-prefix     -> ../config/fec-prefix
| | +--rw pushed-label   -> ../config/pushed-label
| | +--rw nexthop-ip-address -> ../config/nexthop-ip-address
| | +--rw out-interface-name -> ../config/out-interface-name
| | +--rw is-primary     -> ../config/is-primary
| | +--rw config
| | | +--rw tunnel-id?      uint32
| | | +--rw fec-prefix?    cml-data-types:cml_ip_prefix_t
| | | +--rw pushed-label?  uint32
| | | +--rw nexthop-ip-address? inet:ip-address
| | | +--rw out-interface-name? -> /ipi-interface:interfaces/interface/name
| | | +--rw is-primary?    ipi-mpls-types:mpls_vpls_ftn_entry_lsp_type_t
| | +--ro state
| | +--ro tunnel-id?      uint32
| | +--ro fec-prefix?    cml-data-types:cml_ip_prefix_t
| | +--ro pushed-label?  uint32
| | +--ro nexthop-ip-address? inet:ip-address
| | +--ro out-interface-name? -> /ipi-interface:interfaces/interface/name
| | +--ro is-primary?    ipi-mpls-types:mpls_vpls_ftn_entry_lsp_type_t
| +--rw static-ilm-entries
| +--rw static-ilm-entry* [incoming-label]
| +--rw incoming-label -> ../config/incoming-label
| +--rw config
| | +--rw incoming-label? uint32
| +--ro state
| | +--ro incoming-label? uint32
| +--rw pop
| | +--rw config!
| | | +--rw enable-pop-label empty
| | +--ro state
| | +--ro enable-pop-label empty
| +--rw swaps
| +--rw swap* [in-interface-name swapped-label out-interface-name nexthop-ip-address fec-prefix]

```

```
|      +--rw in-interface-name   -> ../config/in-interface-name
|      +--rw swapped-label       -> ../config/swapped-label
|      +--rw out-interface-name  -> ../config/out-interface-name
|      +--rw nexthop-ip-address  -> ../config/nexthop-ip-address
|      +--rw fec-prefix          -> ../config/fec-prefix
|      +--rw config
|      | +--rw in-interface-name?  string
|      | +--rw swapped-label?     uint32
|      | +--rw out-interface-name? -> /ipi-interface:interfaces/interface/name
|      | +--rw nexthop-ip-address? inet:ip-address
|      | +--rw fec-prefix?        cml-data-types:cml_ip_prefix_t
|      +--ro state
|      | +--ro in-interface-name?  string
|      | +--ro swapped-label?     uint32
|      | +--ro out-interface-name? -> /ipi-interface:interfaces/interface/name
|      | +--ro nexthop-ip-address? inet:ip-address
|      | +--ro fec-prefix?        cml-data-types:cml_ip_prefix_t
+--rw global
  +--rw config
  | +--rw mpls-aware-rib-disabled? empty {feature-list:HAVE_MPLS_AWARE_RIB}?
  +--ro state
  | +--ro mpls-aware-rib-disabled? empty {feature-list:HAVE_MPLS_AWARE_RIB}?
augment /ipi-mpls:mpls:
+--ro vrf* [vrf-name] {feature-list:HAVE_VRF}?
+--ro vrf-name -> ../rib/vrf-name
+--ro rib
  +--ro ftn-table
  | +--ro ipv4-ften-entry* [fec-prefix owner lsp-type tunnel-id]
  | | +--ro fec-prefix -> ../state/fec-prefix
  | | +--ro owner      -> ../state/owner
  | | +--ro lsp-type   -> ../state/lsp-type
  | | +--ro tunnel-id  -> ../state/tunnel-id
  | | +--ro nhlfe-entry* [out-interface out-label]
  | | | +--ro out-interface -> ../state/out-interface
  | | | +--ro out-label    -> ../state/out-label
  | | | +--ro state
```

```

| | | +--ro out-interface?      -> /ipi-interface:interfaces/interface/name
| | | +--ro out-label?          uint32
| | | +--ro nexthop-address?     inet:ipv4-address
| | | +--ro nhlfe-type?          ipi-mpls-types:mpls_rib_nhlfe_type_t
| | | +--ro xc-index?           uint32
| | | +--ro xc-type?            ipi-mpls-types:mpls_rib_xc_type_t
| | | +--ro nhlfe-index?        uint32
| | | +--ro administrative-status? ipi-mpls-types:mpls_rib_entry_admin_status_t
| | | +--ro oper-status?        ipi-mpls-types:mpls_rib_entry_oper_status_t
| | | +--ro nhlfe-owner?        ipi-mpls-types:mpls_rib_entry_owner_t
| | | +--ro is-stale?           boolean
| | | +--ro label-op-code?      ipi-mpls-types:mpls_rib_label_op_code_t
| | | +--ro in-interface?       string
| | | +--ro in-label?           uint32
| | +--ro state
| |   +--ro fec-prefix?         cml-data-types:cml_ipv4_addr_prefix_t
| |   +--ro owner?             ipi-mpls-types:mpls_rib_entry_owner_t
| |   +--ro lsp-type?          ipi-mpls-types:mpls_rib_lsp_type_t
| |   +--ro unique-nhlfe-ix?    uint32
| |   +--ro ftn-index?         uint32
| |   +--ro is-primary?        boolean
| |   +--ro route-distance?     uint8
| |   +--ro redirect-action-type? ipi-mpls-types:mpls_rib_action_type_t
| |   +--ro qos-exp-bits?       uint32
| |   +--ro is-entropy-label?   boolean
| |   +--ro in-dscp-class-name? string
| |   +--ro tunnel-id?          uint32
| |   +--ro protected-lsp-id?   uint32
| |   +--ro qos-resource-id?     uint32
| |   +--ro color?             uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| |   +--ro tunnel-policy-name? string {feature-list:HAVE_SERVICE_MAPPING}?
| |   +--ro rsvp-multipath-name? string {feature-list:HAVE_RSVP_MULTIPATH}?
| |   +--ro row-status?         string
| |   +--ro state?             string
| |   +--ro create-time?        cml-data-types:cml_line_t
| |   +--ro up-time?           cml-data-types:cml_line_t

```

```
| | +--ro last-update?      cml-data-types:cml_line_t
| | +--ro description?     string
| +--ro ipv6-ften-entry* [fec-prefix6 owner lsp-type tunnel-id] {feature-list:HAVE_IPV6}?
|   +--ro fec-prefix6  -> ../state/fec-prefix6
|   +--ro owner        -> ../state/owner
|   +--ro lsp-type     -> ../state/lsp-type
|   +--ro tunnel-id    -> ../state/tunnel-id
|   +--ro nhlfe-entry* [out-interface out-label]
|     | +--ro out-interface -> ../state/out-interface
|     | +--ro out-label    -> ../state/out-label
|     | +--ro state
|     |   +--ro out-interface? -> /ipi-interface:interfaces/interface/name
|     |   +--ro out-label?     uint32
|     |   +--ro nexthop-address?  inet:ip-address
|     |   +--ro nhlfe-type?      ipi-mpls-types:mpls_rib_nhlfe_type_t
|     |   +--ro administrative-status? ipi-mpls-types:mpls_rib_entry_admin_status_t
|     |   +--ro oper-status?     ipi-mpls-types:mpls_rib_entry_oper_status_t
|     |   +--ro nhlfe-owner?     ipi-mpls-types:mpls_rib_entry_owner_t
|     |   +--ro is-stale?        boolean
|     |   +--ro label-op-code?   ipi-mpls-types:mpls_rib_label_op_code_t
|     |   +--ro in-interface?    string
|     |   +--ro in-label?        uint32
|     +--ro state
|       +--ro fec-prefix6?      cml-data-types:cml_ipv6_prefix_t
|       +--ro owner?            ipi-mpls-types:mpls_rib_entry_owner_t
|       +--ro lsp-type?         ipi-mpls-types:mpls_rib_lsp_type_t
|       +--ro unique-nhlfe-ix?  uint32
|       +--ro ftn-index?        uint32
|       +--ro is-primary?       boolean
|       +--ro route-distance?   uint8
|       +--ro redirect-action-type? ipi-mpls-types:mpls_rib_action_type_t
|       +--ro qos-exp-bits?     uint32
|       +--ro is-entropy-label?  boolean
|       +--ro in-dscp-class-name? string
|       +--ro tunnel-id?        uint32
|       +--ro protected-lsp-id?  uint32
```

```

|   +--ro qos-resource-id?      uint32
|   +--ro color?                uint32 {feature-list:HAVE_SERVICE_MAPPING}?
|   +--ro tunnel-policy-name?   string {feature-list:HAVE_SERVICE_MAPPING}?
|   +--ro rsvp-multipath-name?  string {feature-list:HAVE_RSVP_MULTIPATH}?
|   +--ro row-status?          string
|   +--ro state?               string
|   +--ro create-time?         cml-data-types:cml_line_t
|   +--ro up-time?             cml-data-types:cml_line_t
|   +--ro last-update?         cml-data-types:cml_line_t
|   +--ro description?         string
+--ro vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-list:HAVE_VRF}?

```

ipi-mpls

```

+--rw mpls
+--rw l2vpn
| +--rw customer-service-templates
| | +--rw customer-service-template* [name] {feature-list:HAVE_VPLS_OR_HAVE_MPLS_VC}?
| |   +--rw name      -> ../config/name
| |   +--rw config
| | | +--rw name?          string
| | | +--rw match-all?    empty
| | | +--rw match-single-tag-outer-vlan-range* string
| | | +--rw match-untagged? empty
| | +--ro state
| | | +--ro name?          string
| | | +--ro match-all?    empty
| | | +--ro match-single-tag-outer-vlan-range* string
| | | +--ro match-untagged? empty
| | +--rw double-tags
| | | +--rw double-tag* [match-outer-vlan-id]
| | |   +--rw match-outer-vlan-id -> ../config/match-outer-vlan-id
| | |   +--rw config
| | | | +--rw match-outer-vlan-id? uint16

```



```

| | | | +--rw match-inner-vlan-id* string
| | |   +--ro state
| | |     +--ro match-outer-vlan-id? uint16
| | |     +--ro match-inner-vlan-id* string
| |   +--rw action-types
| | | +--rw action-type* [vlan-action-type]
| | |   +--rw vlan-action-type -> ../config/vlan-action-type
| | |   +--rw config
| | | | +--rw vlan-action-type?      ipi-mpls-types:mpls_l2vpn_vlan_action_type_t
| | | | +--rw outer-vlan-identifier? uint16
| | | | +--rw tag-protocol-identifier? ipi-mpls-types:mpls_svc_tpid_t
| | |   +--ro state
| | | | +--ro vlan-action-type?      ipi-mpls-types:mpls_l2vpn_vlan_action_type_t
| | | | +--ro outer-vlan-identifier? uint16
| | | | +--ro tag-protocol-identifier? ipi-mpls-types:mpls_svc_tpid_t
| |   +--ro map-list* [vpls-name] {feature-list:HAVE_VPLS}?
| |   +--ro vpls-name -> ../state/vpls-name
| |   +--ro state
| | | +--ro vpls-name?      string
| | | +--ro error-status?    ipi-mpls-types:mpls_l2vpn_serv_temp_error_status_t
| | | +--ro binding-interface-name? string
| +--rw access-circuit-groups
|   +--rw access-circuit-group* [group-name] {feature-list:HAVE_MPLS_VC}?
|   +--rw group-name -> ../config/group-name
|   +--rw config
| |   +--rw group-name?      string
| |   +--rw group-identifier uint32
|   +--ro state
| |   +--ro group-name?      string
| |   +--ro group-identifier uint32
+--rw global
| +--rw config
| | +--rw local-packet-handling? empty
| | +--rw lsp-stitching?          empty
| | +--rw propagate-ttl?          empty
| | +--rw ingress-ttl-value?      uint8

```

```

| | +--rw lsp-model-uniform?      empty
| | +--rw lsp-encap-dscp-preserve? empty {feature-list:HAVE_DUNE}?
| | +--rw propagate-exp-to-cos?   empty {feature-list:HAVE_DNX}?
| | +--rw l2vpn-nw-statistics?    empty {feature-list:HAVE_DNX,feature-list:HAVE_MPLS_STATS}?
| | +--rw six-pe-dscp-preserve?   ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_6PE,feature-
list:HAVE_DUNE}?
| | +--rw suppress-oper-log-mpls? ipi-mpls-types:mpls_services_t
| | +--rw l2vpn-stitching?        empty {feature-list:HAVE_DUNE,feature-list:HAVE_L2VPN_STITCHING}?
| +--ro state
| | +--ro local-packet-handling?  empty
| | +--ro lsp-stitching?          empty
| | +--ro propagate-ttl?          empty
| | +--ro ingress-ttl-value?      uint8
| | +--ro lsp-model-uniform?      empty
| | +--ro lsp-encap-dscp-preserve? empty {feature-list:HAVE_DUNE}?
| | +--ro propagate-exp-to-cos?   empty {feature-list:HAVE_DNX}?
| | +--ro l2vpn-nw-statistics?    empty {feature-list:HAVE_DNX,feature-list:HAVE_MPLS_STATS}?
| | +--ro six-pe-dscp-preserve?   ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_6PE,feature-
list:HAVE_DUNE}?
| | +--ro suppress-oper-log-mpls? ipi-mpls-types:mpls_services_t
| | +--ro l2vpn-stitching?        empty {feature-list:HAVE_DUNE,feature-list:HAVE_L2VPN_STITCHING}?
| | +--ro counters
| |   +--ro label-entries? yang:counter32
| +--ro graceful-restart {feature-list:HAVE_RESTART}?
|   +--ro rsvp
|     +--ro state
|       +--ro graceful-restart-state? ipi-mpls-types:mpls_graceful_restart_status_t
|       +--ro remaining-restart-time? uint32
|       +--ro disconnected-time?      yang:date-and-time
|   +--ro ldp
|     +--ro state
|       +--ro graceful-restart-state? ipi-mpls-types:mpls_graceful_restart_status_t
|       +--ro remaining-restart-time? uint32
|       +--ro disconnected-time?      yang:date-and-time
+--rw interfaces
| +--rw interface* [name]
|   +--rw name          -> ../config/name

```

```

|   +--rw config
|   |   +--rw name?  -> /ipi-interface:interfaces/interface/name
|   |   +--ro state
|   |   |   +--ro name?  -> /ipi-interface:interfaces/interface/name
|   |   +--rw label-switching
|   |   |   +--rw config!
|   |   |   |   +--rw enable      empty
|   |   |   |   +--rw label-space? uint16
|   |   |   +--ro state
|   |   |   |   +--ro enable      empty
|   |   |   |   +--ro label-space? uint16
|   |   +--rw mpls-interface-bandwidth
|   |   +--rw config
|   |   |   +--rw admin-group-name*      -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
|   |   |   +--rw admin-group-anomaly-name*      -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
|   |   |   +--rw extended-admin-group-name*      -> /ipi-global-te:extended-admin-groups/extended-admin-group/
name {feature-list:HAVE_TE}?
|   |   |   +--rw extended-admin-group-anomaly-name* -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_TE}?
|   |   |   +--rw bandwidth?      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
|   |   |   +--rw reservable-bandwidth?      string {feature-list:HAVE_TE}?
|   |   |   +--rw shared-risk-link-group*      uint32 {feature-list:HAVE_SRLG}?
|   |   |   +--rw uni-available-bandwidth?      string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
|   |   |   +--rw uni-residual-bandwidth?      string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
|   |   |   +--rw uni-utilized-bandwidth?      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
|   |   +--ro state
|   |   |   +--ro admin-group-name*      -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
|   |   |   +--ro admin-group-anomaly-name*      -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
|   |   |   +--ro extended-admin-group-name*      -> /ipi-global-te:extended-admin-groups/extended-admin-group/
name {feature-list:HAVE_TE}?
|   |   |   +--ro extended-admin-group-anomaly-name* -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_TE}?
|   |   |   +--ro bandwidth?      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
|   |   |   +--ro reservable-bandwidth?      string {feature-list:HAVE_TE}?

```

```

|      +--ro shared-risk-link-group*      uint32 {feature-list:HAVE_SRLG}?
|      +--ro uni-available-bandwidth?      string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
|      +--ro uni-residual-bandwidth?      string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
|      +--ro uni-utilized-bandwidth?      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
+--rw label-spaces
| +--rw label-space* [label-space-name]
|   +--rw label-space-name    -> ../config/label-space-name
|   +--rw config
|     | +--rw label-space-name?  uint16
|     +--ro state
|       | +--ro label-space-name?  uint16
|       +--rw global-label-range
|         | +--rw config!
|         | | +--rw min-label    uint32
|         | | +--rw max-label    uint32
|         | +--ro state
|         |   +--ro min-label    uint32
|         |   +--ro max-label    uint32
|         +--rw module-label-ranges
|           +--rw module-label-range* [module-name]
|             +--rw module-name    -> ../config/module-name
|             +--rw config
|               | +--rw module-name?  ipi-mpls-types:mpls_module_t
|               | +--rw min-label    uint32
|               | +--rw max-label    uint32
|               +--ro state
|                 +--ro module-name?  ipi-mpls-types:mpls_module_t
|                 +--ro min-label    uint32
|                 +--ro max-label    uint32
+--rw ecmp
| +--rw config
| | +--rw ftn-ecmp-protocol?  ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
| | +--rw ilm-ecmp-protocol?  ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
| +--ro state
|   +--ro ftn-ecmp-protocol?  ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?

```

```
|  +--ro ilm-ecmp-protocol?  ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
+--rw six-pe-tunnel-policies {feature-list:HAVE_SERVICE_MAPPING,feature-list:HAVE_6PE}?
|  +--rw six-pe-tunnel-policy* [name]
|  +--rw name      -> ../config/name
|  +--rw config
|  |  +--rw name?  string
|  +--ro state
|  +--ro name?  string
+--rw bandwidth-classes
+--rw bandwidth-class* [name] {feature-list:HAVE_TE}?
+--rw name      -> ../config/name
+--rw config
|  +--rw name?  string
+--ro state
|  +--ro name?  string
+--rw properties
+--rw config!
|  +--rw max-bandwidth  string
|  +--rw setup-priority  uint8
|  +--rw hold-priority  uint8
+--ro state
+--ro max-bandwidth  string
+--ro setup-priority  uint8
+--ro hold-priority  uint8
```

ipi-mrib

```
+--rw mrib
+--rw ipv4
|  +--rw vrfs
|  |  +--rw vrf* [vrf-name]
|  |  +--rw vrf-name      -> ../config/vrf-name
```

```

| | +--rw config
| | | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | | | +--rw multicast-routing-enable? empty
| | | +--ro state
| | | | +--ro counters
| | | | | +--ro total-multicast-routes?    yang:counter32
| | | | | +--ro dense-mode-multicast-routes? yang:counter32
| | | | | +--ro sparse-mode-multicast-routes? yang:counter32
| | | | | +--ro no-cache-received?         yang:counter32
| | | | | +--ro no-cache-sent?             yang:counter32
| | | | | +--ro wrong-VIF-received?        yang:counter32
| | | | | +--ro wrong-VIF-sent?           yang:counter32
| | | | | +--ro whole-packet-received?     yang:counter32
| | | | | +--ro whole-packet-sent?         yang:counter32
| | | | | +--ro immediate-stat-updates-sent? yang:counter32
| | | | | +--ro timed-stat-updates-sent?   yang:counter32
| | | | | +--ro register-packets-sent?     yang:counter32
| | | | | +--ro register-acks-received?    yang:counter32
| | | | | +--ro register-nacks-received?   yang:counter32
| | | | | +--ro no-cache-receive-rate?     decimal64
| | | | | +--ro register-packet-sent-rate? decimal64
| | | | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | | | | +--ro multicast-routing-enable? empty
| | | | | +--ro stats-poll-expiry-time? string
| | | +--rw route-limit
| | | | +--rw config
| | | | | +--rw maximum-routes?    uint32
| | | | | +--rw warning-threshold? uint32
| | | | +--ro state
| | | | | +--ro maximum-routes?    uint32
| | | | | +--ro warning-threshold? uint32
| | | +--rw debug
| | | | +--rw config
| | | | | +--rw options? ipi-mrib-types:mrib_debug_t
| | | | +--ro state

```

```

| | | +--ro options?          ipi-mrib-types:mrib_debug_t
| | | +--ro terminal-debug-status? ipi-mrib-types:mrib_debug_t
| | +--ro multicast-routes
| |   +--ro multicast-route* [source group]
| |     +--ro source          -> ../state/source
| |     +--ro group           -> ../state/group
| |     +--ro state
| |       | +--ro counters
| |       | | +--ro packets-forwarded? yang:counter32
| |       | | +--ro bytes-forwarded?   yang:counter32
| |       | | +--ro wrong-VIF-sent?    yang:counter32
| |       | | +--ro wrong-VIF-received? yang:counter32
| |       | +--ro source?             inet:ip-address
| |       | +--ro group?              inet:ip-address
| |       | +--ro incoming-interface? string
| |       | +--ro rpf-address?        inet:ip-address
| |       | +--ro route-type?         ipi-mrib-types:mrib_route_type_t
| |       | +--ro uptime?            string
| |       | +--ro stats-poll-expiry-time? string
| |       | +--ro immediate-stats?    empty
| |       | +--ro timed-stats?        empty
| |       | +--ro forwarder-installed? empty
| |     +--ro outgoing-interfaces
| |       +--ro outgoing-interface* [name]
| |         +--ro name   -> ../state/name
| |         +--ro state
| |           +--ro name?   -> /ipi-interface:interfaces/interface/name
| |           +--ro time-to-live? uint8
| +--rw interfaces
|   +--rw interface* [name]
|     +--rw name   -> ../config/name
|     +--rw config
|       | +--rw name?     -> /ipi-interface:interfaces/interface/name
|       | +--rw ttl-threshold? uint8
|       +--ro state
|         +--ro name?     -> /ipi-interface:interfaces/interface/name

```

```

|      +--ro ttl-threshold?  uint8
|      +--ro local-address?  inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
|      +--ro remote-address? inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
|      +--ro uptime?        string
|      +--ro module-name?    string
|      +--ro vif-index?      uint32
+--rw ipv6
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name      -> ../config/vrf-name
    |   +--rw config
    |   | +--rw vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |   | +--rw multicast-routing-enable? empty
    |   | +--ro state
    |   | +--ro counters
    |   | | +--ro total-multicast-routes?  yang:counter32
    |   | | +--ro dense-mode-multicast-routes? yang:counter32
    |   | | +--ro sparse-mode-multicast-routes? yang:counter32
    |   | | +--ro no-cache-received?        yang:counter32
    |   | | +--ro no-cache-sent?             yang:counter32
    |   | | +--ro wrong-VIF-received?        yang:counter32
    |   | | +--ro wrong-VIF-sent?            yang:counter32
    |   | | +--ro whole-packet-received?     yang:counter32
    |   | | +--ro whole-packet-sent?         yang:counter32
    |   | | +--ro immediate-stat-updates-sent? yang:counter32
    |   | | +--ro timed-stat-updates-sent?   yang:counter32
    |   | | +--ro register-packets-sent?     yang:counter32
    |   | | +--ro register-acks-received?    yang:counter32
    |   | | +--ro register-nacks-received?   yang:counter32
    |   | | +--ro no-cache-receive-rate?     decimal64
    |   | | +--ro register-packet-sent-rate? decimal64
    |   | +--ro vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |   | +--ro multicast-routing-enable? empty
    |   | +--ro stats-poll-expiry-time?  string
    |   +--rw route-limit

```

```

| | +--rw config
| | | +--rw maximum-routes?   uint32
| | | +--rw warning-threshold? uint32
| | +--ro state
| |   +--ro maximum-routes?   uint32
| |   +--ro warning-threshold? uint32
| +--rw debug
| | +--rw config
| | | +--rw options? ipi-mrib-types:mrib_debug_t
| | | +--ro state
| |   +--ro options?          ipi-mrib-types:mrib_debug_t
| |   +--ro terminal-debug-status? ipi-mrib-types:mrib_debug_t
| +--ro multicast-routes
|   +--ro multicast-route* [source group]
|     +--ro source          -> ../state/source
|     +--ro group           -> ../state/group
|     +--ro state
|       | +--ro counters
|       | | +--ro packets-forwarded? yang:counter32
|       | | +--ro bytes-forwarded?   yang:counter32
|       | | +--ro wrong-VIF-sent?    yang:counter32
|       | | +--ro wrong-VIF-received? yang:counter32
|       | | +--ro source?            inet:ip-address
|       | | +--ro group?             inet:ip-address
|       | | +--ro incoming-interface? string
|       | | +--ro rpf-address?       inet:ip-address
|       | | +--ro route-type?       ipi-mrib-types:mrib_route_type_t
|       | | +--ro uptime?           string
|       | | +--ro stats-poll-expiry-time? string
|       | | +--ro immediate-stats?   empty
|       | | +--ro timed-stats?       empty
|       | | +--ro forwarder-installed? empty
|       +--ro outgoing-interfaces
|         +--ro outgoing-interface* [name]
|           +--ro name   -> ../state/name
|           +--ro state

```

```

|           +--ro name?          -> /ipi-interface:interfaces/interface/name
|           +--ro time-to-live?  uint8
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?      -> /ipi-interface:interfaces/interface/name
      | +--rw ttl-threshold?  uint8
      +--ro state
        +--ro name?          -> /ipi-interface:interfaces/interface/name
        +--ro ttl-threshold?  uint8
        +--ro local-address?  inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
        +--ro remote-address? inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
        +--ro uptime?         string
        +--ro module-name?    string
        +--ro vif-index?      uint32

```

rpcs:

```

+---x mrib-ipv4-terminal-debug-on {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?          string
|   +---w terminal-debug-options  ipi-mrib-types:mrib_debug_t
+---x mrib-ipv4-terminal-debug-off {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?          string
|   +---w terminal-debug-options  ipi-mrib-types:mrib_debug_t
+---x mrib-ipv4-clear-mroute-all {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?    string
|   +---w all-routes   empty
+---x mrib-ipv4-clear-mroute-group {feature-list:HAVE_MRIBD}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address  inet:ipv4-address
+---x mrib-ipv4-clear-mroute-source-group {feature-list:HAVE_MRIBD}?
| +---w input

```

```

|   +---w vrf-name?      string
|   +---w source-address  inet:ipv4-address
|   +---w group-address   inet:ipv4-address
+---x mrib-ipv4-clear-mroute-statistics-all {feature-list:HAVE_MRIBD}?
|   +---w input
|   +---w vrf-name?      string
|   +---w all-routes     empty
+---x mrib-ipv4-clear-mroute-statistics-group {feature-list:HAVE_MRIBD}?
|   +---w input
|   +---w vrf-name?      string
|   +---w group-address   inet:ipv4-address
+---x mrib-ipv4-clear-mroute-statistics-source-group {feature-list:HAVE_MRIBD}?
|   +---w input
|   +---w vrf-name?      string
|   +---w source-address  inet:ipv4-address
|   +---w group-address   inet:ipv4-address
+---x mrib-ipv4-snmpp-restart {feature-list:HAVE_SNMP}?
+---x mrib-ipv6-terminal-debug-on {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
|   +---w input
|   +---w vrf-name?      string
|   +---w terminal-debug-options  ipi-mrib-types:mrib_debug_t
+---x mrib-ipv6-terminal-debug-off {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
|   +---w input
|   +---w vrf-name?      string
|   +---w terminal-debug-options  ipi-mrib-types:mrib_debug_t
+---x mrib-ipv6-clear-mroute-all {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
|   +---w input
|   +---w vrf-name      string
|   +---w all-routes     empty
+---x mrib-ipv6-clear-mroute-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
|   +---w input
|   +---w vrf-name      string
|   +---w group-address  inet:ipv6-address
+---x mrib-ipv6-clear-mroute-source-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
|   +---w input
|   +---w vrf-name      string

```

```

|   +---w source-address  inet:ipv6-address
|   +---w group-address   inet:ipv6-address
+---x mrib-ipv6-clear-mroute-statistics-all {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
| +---w input
|   +---w vrf-name        string
|   +---w all-routes      empty
+---x mrib-ipv6-clear-mroute-statistics-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
| +---w input
|   +---w vrf-name        string
|   +---w group-address   inet:ipv6-address
+---x mrib-ipv6-clear-mroute-statistics-source-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  +---w input
    +---w vrf-name        string
    +---w source-address  inet:ipv6-address
    +---w group-address   inet:ipv6-address

```

ipi-neighbor-discovery

```

+--rw neighbor-discovery
  +--rw entries
    | +--rw entry* [ipv6-address interface-name]
    |   +--rw ipv6-address  -> ../config/ipv6-address
    |   +--rw interface-name -> ../config/interface-name
    |   +--rw config
    |     | +--rw ipv6-address?  inet:ipv6-address
    |     | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
    |     | +--rw mac-address    cml-data-types:cml_mac_addr_t
    |     +--ro state
    |       +--ro ipv6-address?  inet:ipv6-address
    |       +--ro interface-name? -> /ipi-interface:interfaces/interface/name
    |       +--ro mac-address    cml-data-types:cml_mac_addr_t
    |       +--ro neighbor-age?   string
    |       +--ro neighbor-source? ipi-nd-types:ndd_nd_src_type_t
    |       +--ro neighbor-state? ipi-nd-types:ndd_nd_state_t
    |       +--ro neighbor-if-state? ipi-nd-types:ndd_nd_if_type_t

```

```

+--rw debug
| +--rw config
| | +--rw enable?  empty
| +--ro state
|   +--ro enable?      empty
|   +--ro terminal-debug-status?  cml-data-types:cml_on_off_t
+--rw interfaces
| +--rw interface* [name]
|   +--rw name      -> ../config/name
|   +--rw config
|   | +--rw name?      -> /ipi-interface:interfaces/interface/name
|   | +--rw nd-ageing-timeout?  uint16
|   | +--rw nd-reachable-time?  uint32
|   | +--rw no-ip-unreachable?  empty
|   | +--rw no-ipv6-unreachable? empty
|   +--ro state
|     +--ro name?      -> /ipi-interface:interfaces/interface/name
|     +--ro nd-ageing-timeout?  uint16
|     +--ro nd-reachable-time?  uint32
|     +--ro no-ip-unreachable?  empty
|     +--ro no-ipv6-unreachable? empty
+--ro dynamic-neighbor-discovery* [vrf-name]
  +--ro vrf-name      string
  +--ro entry* [ipv6-address]
    +--ro ipv6-address  inet:ipv6-address
    +--ro mac-address?   cml-data-types:cml_mac_addr_t
    +--ro interface-name? string
    +--ro neighbor-age?  string
    +--ro neighbor-source?  ipi-nd-types:ndd_nd_src_type_t
    +--ro neighbor-state?  ipi-nd-types:ndd_nd_state_t
    +--ro neighbor-if-state? ipi-nd-types:ndd_nd_if_type_t
  +--ro adjacency-summary
    +--ro resolved-arp?  uint32
    +--ro incomplete-arp? uint32
    +--ro unknown-arp?   uint32
    +--ro total-arp?     uint32

```

rpcs:

```
+---x nd-terminal-debug-on {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
+---x nd-terminal-debug-off {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
+---x clear-ipv6-nd-entry {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
| +---w input
|   +---w ipv6-address?  cml-data-types:cml_ipv6_prefix_t
|   +---w vrf-name?      string
+---x clear-ipv6-nd-entry-per-interface {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
    +---w input
        +---w if-name     string
        +---w vrf-name?   string
```

ipi-network-instance

```
+--rw network-instances
+--rw network-instance* [instance-name instance-type]
    +--rw instance-name  -> ../config/instance-name
    +--rw instance-type  -> ../config/instance-type
    +--rw config
    | +--rw instance-name?  string
    | +--rw instance-type? ipi-network-instance-types:net_inst_type_t
    +--ro state
        +--ro instance-name?  string
        +--ro instance-type? ipi-network-instance-types:net_inst_type_t
```

ipi-network-services-manager

```
+--rw network-services-manager
+--rw debug
    +--rw nsm
    | +--rw config
    | | +--rw options? ipi-network-services-manager-types:nsm_debug_t
```

```
| +--ro state
|   +--ro options? ipi-network-services-manager-types:nsm_debug_t
+--rw pkt-mgr
|   +--rw config
|   |   +--rw options? ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-list:HAVE_L2}?
|   |   +--ro state
|   |   |   +--ro options? ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-list:HAVE_L2}?
+--rw hsl {feature-list:HAVE_USER_HSL}?
|   +--rw hsl-module* [module-name]
|   |   +--rw module-name -> ../config/module-name
|   |   +--rw config
|   |   |   +--rw module-name? ipi-network-services-manager-types:hsl_debug_module_t
|   |   |   +--rw level ipi-network-services-manager-types:hsl_debug_level_t
|   |   +--ro state
|   |   |   +--ro module-name? ipi-network-services-manager-types:hsl_debug_module_t
|   |   |   +--ro level ipi-network-services-manager-types:hsl_debug_level_t
+--ro terminal
|   +--ro nsm
|   |   +--ro state
|   |   |   +--ro terminal-debug-status? ipi-network-services-manager-types:nsm_debug_t
+--ro pkt-mgr
|   +--ro state
|   |   +--ro terminal-debug-status? ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-
list:HAVE_L2}?
```

rpcs:

```
+---x nsm-terminal-debug-on
|   +---w input
|   |   +---w terminal-debug-options ipi-network-services-manager-types:nsm_exec_debug_t
+---x nsm-terminal-debug-off
|   +---w input
|   |   +---w terminal-debug-options ipi-network-services-manager-types:nsm_exec_debug_t
+---x hsl-terminal-debug-on {feature-list:NOT_HAVE_SWFWDR,feature-list:HAVE_HAL}?
|   +---w input
|   |   +---w module-name ipi-network-services-manager-types:hsl_debug_module_t
|   |   +---w level ipi-network-services-manager-types:hsl_debug_level_t
+---x hsl-terminal-debug-off {feature-list:NOT_HAVE_SWFWDR,feature-list:HAVE_HAL}?
```

```

| +---w input
|   +---w module-name   ipi-network-services-manager-types:hsl_debug_module_t
|   +---w level         ipi-network-services-manager-types:hsl_debug_level_t
+---x pktmgr-terminal-debug-on {feature-list:HAVE_L2}?
| +---w input
|   +---w terminal-debug-options ipi-network-services-manager-types:nsm_pkt_mgr_debug_t
+---x pktmgr-terminal-debug-off {feature-list:HAVE_L2}?
+---x pktmgr-debug-statistics-enable
+---x pktmgr-debug-statistics-disable
+---x pktmgr-debug-statistics-get
+---x pktmgr-debug-error-statistics-get
| +---w input
|   +---w debug-error-statistics ipi-network-services-manager-types:nsm_pktmgr_statistics_type_t
+---x clear-nsm-ipc-statistics {feature-list:HAVE_ASYNC}?
+---x clear-nsm-server-ipc-statistics
+---x nsm-snmp-restart {feature-list:HAVE_SNMP}?

```

ipi-nos-update-notifications

notifications:

```

+---n nos-image-upgrade-done
  +--ro severity?   cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro message?    string

```

ipi-ntp

```

+--rw ntp
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    |   +--rw vrf-name      -> ../config/vrf-name
    |   +--rw config
    |     | +--rw vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     | +--rw feature-enable? empty

```



```

| | +--rw disable-ntp?    empty
| | +--rw enable-logging? empty
| | +--ro state
| | +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| | +--ro feature-enable? empty
| | +--ro disable-ntp?    empty
| | +--ro enable-logging? empty
| | +--rw ref-clock-master
| | +--rw config!
| | | +--rw enable-local-master    empty
| | | +--rw local-stratum?        uint8
| | | +--ro state
| | |   +--ro enable-local-master    empty
| | |   +--ro local-stratum?        uint8
| | +--rw authentication
| | +--rw config
| | | +--rw enable-ntp-auth?    empty
| | | +--rw ntp-trusted-keys*   uint32
| | | +--rw ntp-request-key?    uint32
| | | +--ro state
| | |   +--ro enable-ntp-auth?    empty
| | |   +--ro ntp-trusted-keys*   uint32
| | |   +--ro ntp-request-key?    uint32
| | +--rw ntp-keys
| |   +--rw ntp-key* [key-id]
| |     +--rw key-id    -> ../config/key-id
| |     +--rw config
| |       | +--rw key-id?    uint32
| |       | +--rw key-value  string
| |       | +--rw key-type   ipi-ntp-types:ntp_hostp_key_type_t
| |       +--ro state
| |         +--ro key-id?    uint32
| |         +--ro key-value  string
| |         +--ro key-type   ipi-ntp-types:ntp_hostp_key_type_t
| +--rw servers
| | +--rw server* [server-address]

```

```
| | +--rw server-address -> ../config/server-address
| | +--rw config
| | | +--rw server-address? string
| | | +--rw prefer? empty
| | | +--rw auth-key? uint32
| | | +--rw minpoll? uint16
| | | +--rw maxpoll? uint16
| | +--ro state
| |   +--ro server-address? string
| |   +--ro prefer? empty
| |   +--ro auth-key? uint32
| |   +--ro minpoll? uint16
| |   +--ro maxpoll? uint16
| +--rw peers
| | +--rw peer* [peer-address]
| |   +--rw peer-address -> ../config/peer-address
| |   +--rw config
| | | +--rw peer-address? string
| | | +--rw prefer? empty
| | | +--rw auth-key? uint32
| | | +--rw minpoll? uint16
| | | +--rw maxpoll? uint16
| | +--ro state
| |   +--ro peer-address? string
| |   +--ro prefer? empty
| |   +--ro auth-key? uint32
| |   +--ro minpoll? uint16
| |   +--ro maxpoll? uint16
| +--rw rate-limiting
| | +--rw config
| | | +--rw minimum-pkt-spacing? uint16
| | +--ro state
| |   +--ro minimum-pkt-spacing? uint16
| +--rw access-control-entries
|   +--rw access-control-entry* [client-ip-address]
|     +--rw client-ip-address -> ../config/client-ip-address
```

```

|   +--rw config
|   |   +--rw client-ip-address?  inet:ip-address
|   |   +--rw netmask?            ipi-ntp-types:ntp_client_ip_net_mask_t
|   |   +--rw access-options?     ipi-ntp-types:ntp_acl_options_t
|   +--ro state
|       +--ro client-ip-address?  inet:ip-address
|       +--ro netmask?            ipi-ntp-types:ntp_client_ip_net_mask_t
|       +--ro access-options?     ipi-ntp-types:ntp_acl_options_t
+--rw debug
| +--rw config
| | +--rw enable?  empty
| +--ro state
|   +--ro enable?          empty
|   +--ro terminal-debug-status?  cml-data-types:cml_on_off_t
+--ro peer-info
| +--ro peers
|   +--ro peer* [peer-address]
|       +--ro peer-address  -> ../state/peer-address
|       +--ro state
|           +--ro peer-address?  cml-data-types:cml_hostname_t
|           +--ro stratum?       uint8
|           +--ro poll-interval? uint32
|           +--ro reach-value?   uint16
|           +--ro root-delay?    decimal64
|           +--ro offset?        decimal64
+--rw default-instance
    +--rw config
    | +--rw disable-default-instance?  empty
    +--ro state
        +--ro disable-default-instance?  empty

```

rpcs:

```

+---x ntp-retry-server-synchronization {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
| +---w input
|   +---w vrf-name  string
+---x ntp-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?

```

```
+---x ntp-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
```

ipi-object-tracking

```
+--rw object-tracking
  +--rw trackers
    | +--rw tracker* [tracker-id]
    |   +--rw tracker-id -> ../config/tracker-id
    |   +--rw config
    |     | +--rw tracker-id? uint16
    |     | +--rw ip-sla-id   uint16
    |     | +--rw delay-up?  uint16
    |     | +--rw delay-down? uint16
    |     +--ro state
    |       +--ro tracker-id?      uint16
    |       +--ro ip-sla-id        uint16
    |       +--ro delay-up?        uint16
    |       +--ro delay-down?      uint16
    |       +--ro reachability-status? ipi-object-tracking-types:object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
  +--rw interfaces
    +--rw interface* [name]
      +--rw name          -> ../config/name
      +--rw config
        | +--rw name?      -> /ipi-interface:interfaces/interface/name
        | +--rw select-option? ipi-object-tracking-types:object_tracking_select_option_t
        +--ro state
        | +--ro name?      -> /ipi-interface:interfaces/interface/name
        | +--ro select-option? ipi-object-tracking-types:object_tracking_select_option_t
      +--rw track-interfaces
        +--rw track-interface* [track-id]
          +--rw track-id -> ../config/track-id
          +--rw config
            | +--rw track-id? uint32
            +--ro state
```

+--ro track-id? uint32

ipi-ospf-interface-tracking

```
+--rw ospf-interfaces-events-tracking
  +--rw ospf-interface-events-tracking* [event-name]
    +--rw event-name -> ../config/event-name
    +--rw config
      | +--rw event-name?          string
      | +--rw event-match-criteria ipi-ospf-interface-tracking-types:intf_track_match_type_t
      | +--rw event-neighbor-ip-address* inet:ipv4-address
    +--ro state
      | +--ro event-name?          string
      | +--ro event-match-criteria ipi-ospf-interface-tracking-types:intf_track_match_type_t
      | +--ro event-neighbor-ip-address* inet:ipv4-address
    +--rw actions
      +--rw interfaces
        +--rw interface* [name]
          +--rw name -> ../config/name
          +--rw config
            | +--rw name? -> /ipi-interface:interfaces/interface/name
            | +--rw cost  uint32
          +--ro state
            +--ro name? -> /ipi-interface:interfaces/interface/name
            +--ro cost  uint32
```

ipi-ospf

```

+--rw ospfv2
  +--rw global
    | +--rw config
    | | +--rw area-interface-config-mode?    empty
    | | +--rw enable-multi-instance-capability? empty {feature-list:HAVE_OSPF_MULTI_INST}?
    | +--ro state
    | | +--ro area-interface-config-mode?    empty
    | | +--ro enable-multi-instance-capability? empty {feature-list:HAVE_OSPF_MULTI_INST}?
    | +--rw graceful-restart {feature-list:HAVE_RESTART}?
    | | +--rw config
    | | | +--rw grace-period?  uint16
    | | +--ro state
    | | | +--ro grace-period?  uint16
    | | +--rw helper
    | | | +--rw config
    | | | | +--rw max-grace-period?    uint16
    | | | | +--rw disable-all-neighbors? empty
    | | | | +--rw disable-neighbor*    inet:ipv4-address
    | | | +--ro state
    | | | | +--ro max-grace-period?    uint16
    | | | | +--ro disable-all-neighbors? empty
    | | | | +--ro disable-neighbor*    inet:ipv4-address
    | +--rw cspf {feature-list:HAVE_OSPF_CSPF}?
    | | +--rw config
    | | | +--rw tie-break-method?      ipi-ospf-types:ospf_cspf_tie_break_t
    | | | +--rw default-retry-interval? uint16
    | | | +--rw enable-better-protection? empty {feature-list:HAVE_GMPLS}?
    | | +--ro state
    | | | +--ro tie-break-method?      ipi-ospf-types:ospf_cspf_tie_break_t
    | | | +--ro default-retry-interval? uint16

```

```

|   +--ro enable-better-protection?  empty {feature-list:HAVE_GMPLS}?
+--rw processes
| +--rw process* [ospf-id]
|   +--rw ospf-id          -> ../config/ospf-id
|   +--rw config
|     | +--rw ospf-id?      uint16
|     | +--rw vrf-name      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:config/vrf-
name {feature-list:HAVE_VRF}?
|     | +--rw router-id?    inet:ipv4-address
|     | +--rw flood-reduction?  empty
|     | +--rw rfc1583-compatibility?  empty
|     | +--rw database-summary?  empty
|     | +--rw bfd-enable-all-interfaces?  empty {feature-list:HAVE_BFD}?
|     | +--rw log-adjacency-changes?  ipi-ospf-types:ospf_log_adj_opt_t
|     | +--rw shutdown?      empty
|     | +--rw area-border-type?  ipi-ospf-types:ospf_abr_type_t
|     | +--rw reference-bandwidth?  uint32
|     | +--rw max-database-descriptors?  uint16
|     | +--rw p2p-rfc-incompatible?  empty
|     | +--rw context-name?      string
|     +--ro state
|       | +--ro statistics
|       | | +--ro router
|       | | | +--ro area-counter?  yang:counter64
|       | | | +--ro database-description-exchanges
|       | | | +--ro in?  yang:counter64
|       | | | +--ro out?  yang:counter64
|       | | | +--ro link-state-advertisement
|       | | | | +--ro originate?  yang:counter64
|       | | | | +--ro received?  yang:counter64
|       | | | | +--ro external?  yang:counter64
|       | | | | +--ro opaque?  yang:counter64
|       | | | | +--ro non-default-external?  yang:counter64
|       | | | +--ro router-event
|       | | | | +--ro packet
|       | | | | | +--ro packets-send-buffer?  yang:counter64
|       | | | | | +--ro unused-packets?  yang:counter64

```

```

| | | | +--ro max-unused-packets? yang:counter64
| | | | +--ro lsa
| | | | +--ro older-lsa-received? yang:counter64
| | | | +--ro lsa-buffer?      uint32
| | | | +--ro spf
| | | | +--ro full?      yang:counter64
| | | | +--ro summary?  yang:counter64
| | | | +--ro external? yang:counter64
| | | | +--ro neighbor
| | | | +--ro state-change?      yang:counter64
| | | | +--ro dead-interval-expiration? yang:counter64
| | | | +--ro bad-link-state-request? yang:counter64
| | | | +--ro sequence-number-mismatch? yang:counter64
| | | | +--ro router-id-changes?      yang:counter64
| | | | +--ro designated-router-election? yang:counter64
| | | +--ro error
| | | | +--ro discarded-in?      yang:counter64
| | | | +--ro discarded-out?     yang:counter64
| | | | +--ro hello-in?         yang:counter64
| | | | +--ro database-descriptor-in? yang:counter64
| | | | +--ro ls-request-in?     yang:counter64
| | | | +--ro ls-update-in?     yang:counter64
| | | | +--ro ls-acknowledge-in? yang:counter64
| | | | +--ro unknown-in?       yang:counter64
| | | | +--ro unknown-out?      yang:counter64
| | | | +--ro bad-version?      yang:counter64
| | | | +--ro bad-crc?          yang:counter64
| | | | +--ro invalid-source?    yang:counter64
| | | | +--ro invalid-destination? yang:counter64
| | | | +--ro no-neighbor?      yang:counter64
| | | | +--ro passive?          yang:counter64
| | | | +--ro wrong-area?       yang:counter64
| | | | +--ro packets-length?   yang:counter64
| | | | +--ro bad-authentication? yang:counter64
| | | +--ro traffic
| | | | +--ro total-packets-in?      yang:counter64

```

```

|   |   | +--ro total-packets-out?      yang:counter64
|   |   | +--ro hello-packets-in?      yang:counter64
|   |   | +--ro hello-packets-out?     yang:counter64
|   |   | +--ro database-descriptor-packets-in? yang:counter64
|   |   | +--ro database-descriptor-packets-out? yang:counter64
|   |   | +--ro ls-request-packets-in?  yang:counter64
|   |   | +--ro ls-request-packets-out?  yang:counter64
|   |   | +--ro ls-update-packets-in?    yang:counter64
|   |   | +--ro ls-update-packets-out?   yang:counter64
|   |   | +--ro ls-acknowledge-packets-in? yang:counter64
|   |   | +--ro ls-acknowledge-packets-out? yang:counter64
|   |   +--ro up-time?                  string
|   | +--ro ospf-id?                    uint16
|   | +--ro vrf-name                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
|   | +--ro router-id?                  inet:ipv4-address
|   | +--ro flood-reduction?            empty
|   | +--ro rfc1583-compatibility?      empty
|   | +--ro database-summary?          empty
|   | +--ro bfd-enable-all-interfaces? empty {feature-list:HAVE_BFD}?
|   | +--ro log-adjacency-changes?      ipi-ospf-types:ospf_log_adj_opt_t
|   | +--ro shutdown?                  empty
|   | +--ro area-border-type?          ipi-ospf-types:ospf_abr_type_t
|   | +--ro reference-bandwidth?        uint32
|   | +--ro max-database-descriptors?   uint16
|   | +--ro p2p-rfc-incompatible?      empty
|   | +--ro context-name?              string
|   | +--ro dste-status?                ipi-ospf-types:ospf_dste_status
|   +--ro link-state-database
|   | +--ro state
|   |   +--ro external-checksum? yang:phys-address
|   |   +--ro opaque-checksum?  yang:phys-address
|   +--rw passive-interfaces
|   | +--rw config
|   |   +--rw passive-interface-all? empty
|   |   +--ro state
|   |   +--ro passive-interface-all? empty

```

```

| | +--rw passive-interface* [name]
| |   +--rw name          -> ../config/name
| |   +--rw config
| |     +--rw name?       -> /ipi-interface:interfaces/interface/name
| |     +--rw passive-mode? ipi-ospf-types:ospf_passive_mode_t
| |     +--ro state
| |       +--ro name?     -> /ipi-interface:interfaces/interface/name
| |       +--ro passive-mode? ipi-ospf-types:ospf_passive_mode_t
| |   +--rw passive-addresses
| |     +--rw passive-address* [address]
| |       +--rw address   -> ../config/address
| |       +--rw config
| |         +--rw address?   inet:ipv4-address
| |         +--rw passive-mode ipi-ospf-types:ospf_passive_addr_mode_t
| |         +--ro state
| |           +--ro address?   inet:ipv4-address
| |           +--ro passive-mode ipi-ospf-types:ospf_passive_addr_mode_t
| +--rw default-information
| | +--rw config
| | | +--rw originate?          empty
| | | +--rw always-advertise-default-route? empty
| | | +--rw metric?            uint32
| | | +--rw metric-type?       ipi-ospf-types:ospf_metric_type_t
| | | +--rw route-map?         string
| | +--ro state
| |   +--ro originate?          empty
| |   +--ro always-advertise-default-route? empty
| |   +--ro metric?            uint32
| |   +--ro metric-type?       ipi-ospf-types:ospf_metric_type_t
| |   +--ro route-map?         string
| +--rw segment-routing {feature-list:HAVE_SR_MPLS}?
| | +--rw config
| | | +--rw mpls? empty
| | +--ro state
| | | +--ro mpls? empty
| | +--rw global-blocks {feature-list:HAVE_SR_MPLS}?

```

```

| | | +--rw global-block* [block-base-value block-range-size]
| | |   +--rw block-base-value  -> ../config/block-base-value
| | |   +--rw block-range-size  -> ../config/block-range-size
| | |   +--rw config
| | |     | +--rw block-base-value? uint32
| | |     | +--rw block-range-size? uint32
| | |     +--ro state
| | |       +--ro block-base-value? uint32
| | |       +--ro block-range-size? uint32
| | +--rw prefix-sid-map {feature-list:HAVE_SR_MPLS}?
| | | +--rw config
| | | | +--rw advertise-local? empty
| | | | +--rw disable-receive? empty
| | | | +--ro state
| | | |   +--ro advertise-local? empty
| | | |   +--ro disable-receive? empty
| | | +--ro announce-lists
| | | | +--ro announce-list* [area-id]
| | | |   +--ro area-id          -> ../state/area-id
| | | |   +--ro state
| | | |     | +--ro area-id? inet:ipv4-address
| | | |     | +--ro instance? uint32
| | | |     +--ro external-prefixes-lsa
| | | |       | +--ro external-prefix-lsa* [prefix]
| | | |       |   +--ro prefix  -> ../state/prefix
| | | |       |   +--ro state
| | | |       |     +--ro prefix?          cml-data-types:cml_ipv4_addr_prefix_t
| | | |       |     +--ro advertising-router? inet:ipv4-address
| | | |       |     +--ro route-type?       ipi-ospf-types:ospf_prefix_route_type_t
| | | |     +--ro external-prefixes-range
| | | |       +--ro external-prefix-range* [ls-id]
| | | |         +--ro ls-id  -> ../state/ls-id
| | | |         +--ro state
| | | |           +--ro ls-id?          inet:ipv4-address
| | | |           +--ro prefix?          cml-data-types:cml_ipv4_addr_prefix_t
| | | |           +--ro advertising-router? inet:ipv4-address

```

```

| | |      +--ro range-size?      uint16
| | +--ro mapping-servers
| | | +--ro state
| | | | +--ro active-entries-count?  yang:counter32
| | | | +--ro inactive-entries-count?  yang:counter32
| | | | +--ro conflict-resolution-policy?  ipi-ospf-types:ospf_resolution_policy_t
| | | +--ro active-servers
| | | | +--ro active-server* [prefix]
| | | |   +--ro prefix  -> ../state/prefix
| | | |   +--ro state
| | | |     +--ro prefix?      cml-data-types:cml_ipv4_addr_prefix_t
| | | |     +--ro sid-index?    uint32
| | | |     +--ro range-size?   uint32
| | | |     +--ro last-prefix?  cml-data-types:cml_ipv4_addr_prefix_t
| | | |     +--ro last-sid-index?  uint32
| | | |     +--ro binding-flags?  empty
| | | |     +--ro preference?    uint8
| | | |     +--ro status?       ipi-ospf-types:ospf_sr_mapping_server_status_t
| | | |     +--ro advertising-router?  inet:ipv4-address
| | | |     +--ro flags?        uint8
| | | +--ro inactive-servers
| | | | +--ro inactive-server* [prefix]
| | | |   +--ro prefix  -> ../state/prefix
| | | |   +--ro state
| | | |     +--ro prefix?      cml-data-types:cml_ipv4_addr_prefix_t
| | | |     +--ro sid-index?    uint32
| | | |     +--ro range-size?   uint32
| | | |     +--ro last-prefix?  cml-data-types:cml_ipv4_addr_prefix_t
| | | |     +--ro last-sid-index?  uint32
| | | |     +--ro binding-flags?  empty
| | | |     +--ro preference?    uint8
| | | |     +--ro status?       ipi-ospf-types:ospf_sr_mapping_server_status_t
| | | |     +--ro advertising-router?  inet:ipv4-address
| | | |     +--ro flags?        uint8
| | +--ro capabilities
| |   +--ro capability* [advertising-router]

```

```

| |   +--ro advertising-router  -> ../state/advertising-router
| |   +--ro state
| |   | +--ro advertising-router?      inet:ipv4-address
| |   | +--ro algorithms*              ipi-ospf-types:ospf_sr_algorithm_t
| |   | +--ro entropy-capability?      empty
| |   | +--ro entropy-readable-label-depth? uint8
| |   | +--ro mapping-server-preference? uint8
| |   +--ro segment-identifier
| |   +--ro state
| |   | +--ro total-supported? uint32
| |   | +--ro range-count? uint32
| |   +--ro sid-ranges
| |   +--ro sid-range* [start end]
| |   +--ro start  -> ../state/start
| |   +--ro end    -> ../state/end
| |   +--ro state
| |   +--ro start? uint32
| |   +--ro end?  uint32
| +--rw capability
| | +--rw config
| | | +--rw disable-cspf?      empty {feature-list:HAVE_OSPF_CSPF}?
| | | +--rw enable-vrf-lite?   empty {feature-list:HAVE_VRF_OSPF}?
| | | +--rw disable-opaque-lsa? empty {feature-list:HAVE_OPAQUE_LSA}?
| | | +--rw disable-traffic-engineering? empty {feature-list:HAVE_OSPF_TE}?
| | | +--rw disable-graceful-restart? empty {feature-list:HAVE_RESTART}?
| | | +--rw link-local-signaling? empty {feature-list:HAVE_RESTART}?
| | +--ro state
| | +--ro disable-cspf?      empty {feature-list:HAVE_OSPF_CSPF}?
| | +--ro enable-vrf-lite?   empty {feature-list:HAVE_VRF_OSPF}?
| | +--ro disable-opaque-lsa? empty {feature-list:HAVE_OPAQUE_LSA}?
| | +--ro disable-traffic-engineering? empty {feature-list:HAVE_OSPF_TE}?
| | +--ro disable-graceful-restart? empty {feature-list:HAVE_RESTART}?
| | +--ro link-local-signaling? empty {feature-list:HAVE_RESTART}?
| +--rw areas
| | +--rw area* [area-id]
| | | +--rw area-id          -> ../config/area-id

```

```

| | | +--rw config
| | | | +--rw area-id?          ipi-ospf-types:ospf_area_t
| | | | +--rw authentication-type? ipi-ospf-types:ospf_area_authentication_type_t
| | | | +--rw default-cost?      uint32
| | | | +--rw shortcut?          ipi-ospf-types:ospf_area_shortcut_type_t
| | | +--ro state
| | | | +--ro area-id?          ipi-ospf-types:ospf_area_t
| | | | +--ro authentication-type? ipi-ospf-types:ospf_area_authentication_type_t
| | | | +--ro default-cost?      uint32
| | | | +--ro shortcut?          ipi-ospf-types:ospf_area_shortcut_type_t
| | | | +--ro interface-count?    yang:counter64
| | | | +--ro neighbor-count?     yang:counter64
| | | | +--ro spf-last-execution-time? string
| | | | +--ro spf-execution-count? yang:counter64
| | | | +--ro lsa-count?          yang:counter64
| | | | +--ro lsa-checksum?       yang:phys-address
| | | +--rw interfaces
| | | | +--rw interface* [name]
| | | | | +--rw name      -> ../config/name
| | | | | +--rw config
| | | | | | +--rw name?      string
| | | | | | +--rw cost?      uint16
| | | | | | +--rw network-type? ipi-ospf-types:ospf_network_t
| | | | | | +--rw passive?    empty
| | | | | | +--rw priority?   uint8
| | | | | | +--rw authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
| | | | | | +--rw key?        ipi-ospf-types:ospf_md5_password_t
| | | | | +--ro state
| | | | | | +--ro name?      string
| | | | | | +--ro cost?      uint16
| | | | | | +--ro network-type? ipi-ospf-types:ospf_network_t
| | | | | | +--ro passive?    empty
| | | | | | +--ro priority?   uint8
| | | | | | +--ro authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
| | | | | | +--ro key?        ipi-ospf-types:ospf_md5_password_t
| | | | +--rw enable-bfd {feature-list:HAVE_BFD}?

```

```

|   |   |   | +--rw config
|   |   |   | | +--rw enabled? ipi-ospf-types:ospf_bfd_state
|   |   |   | | +--ro state
|   |   |   | |   +--ro enabled? ipi-ospf-types:ospf_bfd_state
|   |   |   | +--rw lsa-filter
|   |   |   | | +--rw config
|   |   |   | | | +--rw filter-out? empty
|   |   |   | | +--ro state
|   |   |   | |   +--ro filter-out? empty
|   |   |   | +--rw mpls
|   |   |   | | +--rw config
|   |   |   | | | +--rw traffic-engineering-metric? uint16 {feature-list:HAVE_OSPF_TE}?
|   |   |   | | +--ro state
|   |   |   | | | +--ro traffic-engineering-metric? uint16 {feature-list:HAVE_OSPF_TE}?
|   |   |   | +--rw igp-ldp-sync
|   |   |   | | +--rw config
|   |   |   | | | +--rw ldp-igp-sync-enable? empty {feature-list:HAVE_LDPD}?
|   |   |   | | | +--rw holddown-timer? uint32 {feature-list:HAVE_LDPD}?
|   |   |   | | +--ro state
|   |   |   | |   +--ro ldp-igp-sync-enable? empty {feature-list:HAVE_LDPD}?
|   |   |   | |   +--ro holddown-timer? uint32 {feature-list:HAVE_LDPD}?
|   |   |   | +--rw timers
|   |   |   | +--rw config
|   |   |   | | +--rw dead-interval? uint16
|   |   |   | | +--rw hello-interval? uint16
|   |   |   | | +--rw retransmission-interval? uint16
|   |   |   | +--ro state
|   |   |   |   +--ro dead-interval? uint16
|   |   |   |   +--ro hello-interval? uint16
|   |   |   |   +--ro retransmission-interval? uint16
|   |   | +--rw stub
|   |   | +--rw config
|   |   | | +--rw is-stub? empty
|   |   | | +--rw no-summary? empty
|   |   | +--ro state
|   |   | +--ro is-stub? empty

```

```

|   |   |   +--ro no-summary?  empty
|   |   +--rw nssas {feature-list:HAVE_NSSA}?
|   |   |   +--rw nssa* [nssa-enable]
|   |   |   +--rw nssa-enable   -> ../config/nssa-enable
|   |   |   +--rw config
|   |   |   |   +--rw nssa-enable?          ipi-ospf-types:ospf_nssa_t
|   |   |   |   +--rw no-summary?          empty
|   |   |   |   +--rw stability-interval?   uint32
|   |   |   |   +--rw translator-role?      ipi-ospf-types:ospf_translator_role_t
|   |   |   |   +--rw no-redistribution?    empty
|   |   |   |   +--rw default-information-originate? empty
|   |   |   |   +--rw metric?              uint32
|   |   |   |   +--rw metric-type?         ipi-ospf-types:ospf_metric_type_t
|   |   |   |   +--rw route-map?          string
|   |   |   +--ro state
|   |   |   |   +--ro nssa-enable?          ipi-ospf-types:ospf_nssa_t
|   |   |   |   +--ro no-summary?          empty
|   |   |   |   +--ro stability-interval?   uint32
|   |   |   |   +--ro translator-role?      ipi-ospf-types:ospf_translator_role_t
|   |   |   |   +--ro no-redistribution?    empty
|   |   |   |   +--ro default-information-originate? empty
|   |   |   |   +--ro metric?              uint32
|   |   |   |   +--ro metric-type?         ipi-ospf-types:ospf_metric_type_t
|   |   |   |   +--ro route-map?          string
|   |   |   |   +--ro translator-count?     yang:counter64
|   |   |   |   +--ro translator-state?     ipi-ospf-types:ospf_nssa_translator_state_t
|   |   +--rw filter-list {feature-list:HAVE_ACL}?
|   |   |   +--rw prefix-list {feature-list:HAVE_ACL}?
|   |   |   |   +--rw filter-in
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw name?  string
|   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   +--ro name?  string
|   |   |   |   |   +--rw filter-out
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw name?  string

```



```

|   |   |   |   +--ro state
|   |   |   |   +--ro name?  string
|   |   |   |   +--rw access-control-list {feature-list:HAVE_ACL}?
|   |   |   |   +--rw filter-in
|   |   |   |   |   +--rw config
|   |   |   |   |   +--rw name?  string
|   |   |   |   |   +--ro state
|   |   |   |   |   +--ro name?  string
|   |   |   |   +--rw filter-out
|   |   |   |   +--rw config
|   |   |   |   |   +--rw name?  string
|   |   |   |   +--ro state
|   |   |   |   +--ro name?  string
|   |   |   |   +--rw hosts
|   |   |   |   +--rw host* [ip-address]
|   |   |   |   +--rw ip-address  -> ../config/ip-address
|   |   |   |   +--rw config
|   |   |   |   |   +--rw ip-address?  inet:ipv4-address
|   |   |   |   |   +--rw cost?      uint16
|   |   |   |   +--ro state
|   |   |   |   +--ro ip-address?  inet:ipv4-address
|   |   |   |   +--ro cost?      uint16
|   |   |   |   +--rw networks
|   |   |   |   +--rw network* [prefix]
|   |   |   |   +--rw prefix  -> ../config/prefix
|   |   |   |   +--rw config
|   |   |   |   |   +--rw prefix?      cml-data-types:cml_ipv4_prefix_t
|   |   |   |   |   +--rw instance-id  uint8 {feature-list:HAVE_OSPF_MULTI_INST}?
|   |   |   |   +--ro state
|   |   |   |   +--ro prefix?      cml-data-types:cml_ipv4_prefix_t
|   |   |   |   +--ro instance-id  uint8 {feature-list:HAVE_OSPF_MULTI_INST}?
|   |   |   |   +--rw area-ranges
|   |   |   |   +--rw area-range* [address]
|   |   |   |   +--rw address  -> ../config/address
|   |   |   |   +--rw config
|   |   |   |   |   +--rw address?      cml-data-types:cml_ipv4_prefix_t

```

```

|   |   |   | +--rw disable-advertise? empty
|   |   |   | +--ro state
|   |   |   |   +--ro address?          cml-data-types:cml_ipv4_prefix_t
|   |   |   |   +--ro disable-advertise? empty
|   |   |   | +--rw virtual-links
|   |   |   | +--rw virtual-link* [remote-router-id]
|   |   |   |   +--rw remote-router-id      -> ../config/remote-router-id
|   |   |   |   +--rw config
|   |   |   |   | +--rw remote-router-id?  inet:ipv4-address
|   |   |   |   | +--ro state
|   |   |   |   |   +--ro remote-router-id?  inet:ipv4-address
|   |   |   |   |   +--ro name?              string
|   |   |   |   |   +--ro interface?         string
|   |   |   |   |   +--ro virtual-link-interface-state? ipi-ospf-types:ospf_vlink_interface_state_t
|   |   |   |   |   +--ro link-state?        ipi-ospf-types:ospf_vlink_status_t
|   |   |   |   |   +--ro adjacency-state?    ipi-ospf-types:ospf_vlink_adj_state_t
|   |   |   |   |   +--ro hello-packet-due-in? string
|   |   |   |   |   +--ro local-address?      cml-data-types:cml_ipv4_prefix_t
|   |   |   |   |   +--ro remote-address?     cml-data-types:cml_ipv4_prefix_t
|   |   |   |   +--rw bfd
|   |   |   |   +--rw config
|   |   |   |   | +--rw fall-over? empty {feature-list:HAVE_BFD}?
|   |   |   |   | +--ro state
|   |   |   |   |   +--ro fall-over? empty {feature-list:HAVE_BFD}?
|   |   |   |   +--rw authentication
|   |   |   |   +--rw config
|   |   |   |   | +--rw authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
|   |   |   |   | +--rw key?                ipi-ospf-types:ospf_md5_password_t
|   |   |   |   | +--ro state
|   |   |   |   | +--ro authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
|   |   |   |   | +--ro key?                ipi-ospf-types:ospf_md5_password_t
|   |   |   |   +--rw message-digests
|   |   |   |   | +--rw message-digest* [message-digest-id]
|   |   |   |   |   +--rw message-digest-id -> ../config/message-digest-id
|   |   |   |   |   +--rw config
|   |   |   |   |   | +--rw message-digest-id? uint8

```

```

|   |   |   |   |   | +--rw message-digest-encryption-type  ipi-ospf-types:ospf_cipher_type_t
|   |   |   |   |   | +--rw message-digest-key             ipi-ospf-types:ospf_md5_password_t
|   |   |   |   |   | +--ro state
|   |   |   |   |   | +--ro message-digest-id?              uint8
|   |   |   |   |   | +--ro message-digest-encryption-type  ipi-ospf-types:ospf_cipher_type_t
|   |   |   |   |   | +--ro message-digest-key             ipi-ospf-types:ospf_md5_password_t
|   |   |   |   |   | +--rw timers
|   |   |   |   |   | +--rw config
|   |   |   |   |   | | +--rw dead-interval?               uint16
|   |   |   |   |   | | +--rw hello-interval?              uint16
|   |   |   |   |   | | +--rw transmit-delay?              uint16
|   |   |   |   |   | | +--rw retransmission-interval?      uint16
|   |   |   |   |   | | +--ro state
|   |   |   |   |   | | +--ro dead-interval?               uint16
|   |   |   |   |   | | +--ro hello-interval?              uint16
|   |   |   |   |   | | +--ro transmit-delay?              uint16
|   |   |   |   |   | | +--ro retransmission-interval?      uint16
|   |   |   |   |   | +--ro virtual-link-interface-state-change
|   |   |   |   |   | | +--ro router-id?                    inet:ipv4-address
|   |   |   |   |   | | +--ro interface-state?              ipi-ospf-types:ospf_interface_state_t
|   |   |   |   |   | +--ro virtual-neighbor-state-change
|   |   |   |   |   | | +--ro router-id?                    inet:ipv4-address
|   |   |   |   |   | | +--ro neighbor-state?              ipi-ospf-types:ospf_neighbor_state_change_t
|   |   |   |   |   | +--ro virtual-link-interface-rx-bad-packet
|   |   |   |   |   | | +--ro router-id?                    inet:ipv4-address
|   |   |   |   |   | | +--ro packet-type?                  ipi-ospf-types:ospf_packet_type_t
|   |   |   |   |   | +--ro virtual-link-interface-tx-retransmit
|   |   |   |   |   | | +--ro router-id?                    inet:ipv4-address
|   |   |   |   |   | | +--ro packet-type?                  ipi-ospf-types:ospf_packet_type_t
|   |   |   |   |   | | +--ro lsdb-type?                    ipi-ospf-types:ospf_lsdb_type_t
|   |   |   |   |   | | +--ro lsdb-lsid?                    inet:ipv4-address
|   |   |   |   |   | | +--ro lsdb-router-id?              inet:ipv4-address
|   |   |   |   |   | +--ro virtual-link-interface-config-error
|   |   |   |   |   | | +--ro router-id?                    inet:ipv4-address
|   |   |   |   |   | | +--ro error-type?                  ipi-ospf-types:ospf_config_error_type_t
|   |   |   |   |   | | +--ro packet-type?                  ipi-ospf-types:ospf_packet_type_t

```

```

| | | +--rw sham-links {feature-list:HAVE_VRF_OSPF,feature-list:HAVE_MPLS}?
| | | | +--rw sham-link* [source-id destination-id]
| | | | | +--rw source-id      -> ../config/source-id
| | | | | +--rw destination-id -> ../config/destination-id
| | | | | +--rw config
| | | | | | +--rw source-id?    inet:ipv4-address
| | | | | | +--rw destination-id? inet:ipv4-address
| | | | | | +--rw cost?        uint16
| | | +--ro traffic-engineering-database {feature-list:HAVE_OSPF_CSPF}?
| | | | +--ro link* [advertising-router link-id]
| | | | | +--ro advertising-router -> ../state/advertising-router
| | | | | +--ro link-id           -> ../state/link-id
| | | | | +--ro state
| | | | | | +--ro link-id?        inet:ipv4-address
| | | | | | +--ro advertising-router? inet:ipv4-address
| | | | | | +--ro ls-options?     string
| | | | | | +--ro ls-opaque-type? uint32
| | | | | | +--ro ls-age?         uint16
| | | | | | +--ro ls-type?        ipi-ospf-types:ospf_lsdb_type_t
| | | | | | +--ro ls-instance?    string
| | | | | | +--ro ls-sequence-number? string
| | | | | | +--ro ls-checksum?     string
| | | | | | +--ro ls-length?       uint16
| | | | | +--ro tlv
| | | | | +--ro state
| | | | | | +--ro type?            ipi-ospf-types:ospf_tlv_type_t
| | | | | | +--ro link-type?       ipi-ospf-types:ospf_tlv_link_type_t
| | | | | | +--ro local-interface-addresses* inet:ipv4-address
| | | | | | +--ro remote-interface-addresses* inet:ipv4-address
| | | | | | +--ro local-ids*        inet:ipv4-address {feature-list:HAVE_GMPLS}?
| | | | | | +--ro remote-ids*       inet:ipv4-address {feature-list:HAVE_GMPLS}?
| | | | | | +--ro local-interface-id? uint32 {feature-list:HAVE_GMPLS}?
| | | | | | +--ro local-remote-interface-id? uint32 {feature-list:HAVE_GMPLS}?
| | | | | | +--ro metric?           uint32
| | | | | | +--ro maximum-bandwidth? string
| | | | | | +--ro maximum-reservable-bandwidth? string

```

```

| | | | | +--ro resource-color-values*      decimal64
| | | | | +--ro protection-type?             cml-data-types:cml_gmpls_protection_type_t
| | | | | +--ro shared-risk-link-groups?     uint32
| | | | | +--ro capability
| | | | | +--ro state
| | | | | | +--ro type?                      cml-data-types:cml_gmpls_capability_type_t {feature-list:HAVE_GMPLS}?
| | | | | | +--ro encoding-type?            cml-data-types:cml_gmpls_encoding_type_t {feature-
list:HAVE_GMPLS}?
| | | | | | +--ro mtu?                      uint16
| | | | | | +--ro minimum-lsp-bandwidth?    string {feature-list:HAVE_GMPLS}?
| | | | | | +--ro maximum-lsp-bandwidths
| | | | | | +--ro maximum-lsp-bandwidth* [priority]
| | | | | | +--ro priority  -> ../state/priority
| | | | | | +--ro state
| | | | | | +--ro priority?  uint8
| | | | | | +--ro bandwidth?  string
| | | | | +--ro unreserved-bandwidths
| | | | | | +--ro unreserved-bandwidth* [priority]
| | | | | | +--ro priority  -> ../state/priority
| | | | | | +--ro state
| | | | | | +--ro priority?  uint8
| | | | | | +--ro bandwidth?  string
| | | | | +--ro link-delay
| | | | | | +--ro state
| | | | | | +--ro anomalous-bit?  empty
| | | | | | +--ro delay?          uint32
| | | | | +--ro link-min-max-delay
| | | | | | +--ro state
| | | | | | +--ro anomalous-bit?  empty
| | | | | | +--ro minimum-delay?  uint32
| | | | | | +--ro maximum-delay?  uint32
| | | | | +--ro link-delay-variation
| | | | | | +--ro state
| | | | | | +--ro delay-variation?  uint32
| | | | | +--ro link-loss
| | | | | | +--ro state
| | | | | | +--ro anomalous-bit?  empty

```

```

| | | | +--ro loss?      string
| | | | +--ro link-bandwidth
| | | | +--ro state
| | | | +--ro residual-bandwidth?  string
| | | | +--ro available-bandwidth?  string
| | | | +--ro utilized-bandwidth?  string
| | | +--ro router* [router-id]
| | | +--ro router-id  -> ../state/router-id
| | | +--ro state
| | | +--ro router-id?      inet:ipv4-address
| | | +--ro advertising-router?  inet:ipv4-address
| | | +--ro ls-options?      string
| | | +--ro ls-opaque-type?   uint32
| | | +--ro ls-age?          uint16
| | | +--ro ls-type?         ipi-ospf-types:ospf_lsdb_type_t
| | | +--ro ls-instance?     string
| | | +--ro ls-sequence-number?  string
| | | +--ro ls-checksum?      string
| | | +--ro ls-length?       uint16
| | +--rw config
| | +--rw maximum-areas-number?  uint32
| | +--ro state
| | +--ro maximum-areas-number?  uint32
| +--rw lsdb
| | +--rw overflow
| | +--rw normal-lsa
| | | +--rw config!
| | | | +--rw max-limit  uint32
| | | | +--rw limit-type  ipi-ospf-types:ospf_db_limit_type_t
| | | | +--ro state
| | | | +--ro max-limit  uint32
| | | | +--ro limit-type  ipi-ospf-types:ospf_db_limit_type_t
| | | +--rw external-lsa {feature-list:HAVE_OSPF_DB_OVERFLOW}?
| | | | +--rw config!
| | | | | +--rw max-limit  uint32
| | | | | +--rw exit-interval  uint16

```

```

| | | +--ro state
| | |   +--ro max-limit      uint32
| | |   +--ro exit-interval  uint16
| |   +--ro lsdbs-overflow-external-lsa
| |   +--ro router-id? -> /ospfv2/processes/process/state/router-id
| |   +--ro max-limit?  uint32
|   +--rw lfa {feature-list:HAVE_OSPF_LFA}?
|   | +--rw fast-reroute
|   |   +--rw config
|   |     | +--rw keep-all-paths?  empty
|   |     | +--rw remote-lfa-areas* ipi-ospf-types:ospf_area_t {feature-list:HAVE_LDPD}?
|   |     | +--rw route-map?       string
|   |   +--ro state
|   |     | +--ro keep-all-paths?  empty
|   |     | +--ro remote-lfa-areas* ipi-ospf-types:ospf_area_t {feature-list:HAVE_LDPD}?
|   |     | +--ro route-map?       string
|   |   +--rw tie-breaks
|   |     | +--rw tie-break* [type]
|   |     |   +--rw type -> ../config/type
|   |     |   +--rw config
|   |     |     | +--rw type? ipi-ospf-types:ospf_frr_tie_break_t
|   |     |     |   +--rw idx  uint8
|   |     |   +--ro state
|   |     |     +--ro type? ipi-ospf-types:ospf_frr_tie_break_t
|   |     |     +--ro idx  uint8
|   |   +--rw topologies-independent-lfa
|   |     +--rw topology-independent-lfa* [area-id] {feature-list:HAVE_OSPF_TI_LFA}?
|   |       +--rw area-id -> ../config/area-id
|   |       +--rw config
|   |         | +--rw area-id? ipi-ospf-types:ospf_area_t
|   |         +--ro state
|   |           | +--ro area-id? ipi-ospf-types:ospf_area_t
|   |           +--ro routes {feature-list:HAVE_OSPF_TI_LFA}?
|   |             | +--ro route* [prefix]
|   |             |   +--ro prefix -> ../state/prefix
|   |             |   +--ro state

```

```

| | | | +--ro prefix? cml-data-types:cml_ipv4_addr_prefix_t
| | | | +--ro primary-nexthop-infos
| | | |   +--ro primary-nexthop-info* [primary-path-nexthop]
| | | |     +--ro primary-path-nexthop -> ../state/primary-path-nexthop
| | | |     +--ro state
| | | |       +--ro primary-path-nexthop? inet:ipv4-address
| | | |       +--ro primary-interface-name? string
| | | |       +--ro pq-node? inet:ipv4-address
| | | |       +--ro p-node-disjoint? inet:ipv4-address
| | | |       +--ro q-node-disjoint? inet:ipv4-address
| | | +--ro neighbors {feature-list:HAVE_OSPF_TI_LFA}?
| | | | +--ro neighbor* [address]
| | | |   +--ro address -> ../state/address
| | | |   +--ro state
| | | |     +--ro address? inet:ipv4-address
| | | |     +--ro pq-node? inet:ipv4-address
| | | |     +--ro p-node-disjoint? inet:ipv4-address
| | | |     +--ro q-node-disjoint? inet:ipv4-address
| | | +--ro vertices {feature-list:HAVE_OSPF_TI_LFA}?
| | | | +--ro vertex* [ls-id]
| | | |   +--ro ls-id -> ../state/ls-id
| | | |   +--ro state
| | | |     +--ro ls-id? inet:ipv4-address
| | | |   +--ro backup-infos
| | | |     +--ro backup-info* [primary-interface-name]
| | | |       +--ro primary-interface-name -> ../state/primary-interface-name
| | | |       +--ro state
| | | |         +--ro primary-interface-name? string
| | | |         +--ro backup-out-interface-name? string
| | | |         +--ro pq-node? inet:ipv4-address
| | | |         +--ro p-node-disjoint? inet:ipv4-address
| | | |         +--ro q-node-disjoint? inet:ipv4-address
| | | |       +--ro p-nodes
| | | |         +--ro p-node* [address]
| | | |         +--ro address -> ../state/address
| | | |       +--ro state

```

```

| | | | +--ro address?  inet:ipv4-address
| | | | +--ro distance? uint32
| | | | +--ro q-nodes
| | | |   +--ro q-node* [address]
| | | |   +--ro address  -> ../state/address
| | | |   +--ro state
| | | |   +--ro address?  inet:ipv4-address
| | | |   +--ro distance? uint32
| | +--ro repair-lists
| |   +--ro repair-list* [prefix]
| |     +--ro prefix      -> ../state/prefix
| |     +--ro state
| |       | +--ro prefix?  cml-data-types:cml_ipv4_addr_prefix_t
| |     +--ro primary-info
| |       | +--ro state
| |       |   +--ro metric?    uint32
| |       |   +--ro route-ftn-idx? uint32
| |       |   +--ro route-ilm-idx? uint32
| |       |   +--ro sr-in-label? uint32
| |     +--ro nexthop-infos
| |       | +--ro nexthop-info* [primary-path-nexthop]
| |       |   +--ro primary-path-nexthop -> ../state/primary-path-nexthop
| |       |   +--ro state
| |       |     +--ro primary-path-nexthop?    inet:ipv4-address
| |       |     +--ro primary-path-interface?  string
| |       |     +--ro segment-routing-outgoing-label? uint32
| |       |     +--ro backup-outgoing-label?    uint32
| |       |     +--ro bypass-trunk-id?          uint32
| |       |     +--ro backup-interface-name?    string
| |       |     +--ro pq-node?                  inet:ipv4-address
| |       |     +--ro p-node-disjoint?          inet:ipv4-address
| |       |     +--ro q-node-disjoint?          inet:ipv4-address
| |     +--ro segment-routing-trunks
| |       +--ro segment-routing-trunk* [trunk-name]
| |       +--ro trunk-name  -> ../state/trunk-name
| |       +--ro state

```

```

| |      +--ro trunk-name?      string
| |      +--ro trunk-id?        uint32
| |      +--ro ftn-id?          uint32
| |      +--ro ref-cnt?          uint32
| |      +--ro outgoing-label-count? yang:counter32
| |      +--ro outgoing-labels*  uint32
| |      +--ro next-hop?         inet:ipv4-address
| +--rw administrative-distance
| | +--rw config
| | | +--rw default-distance?  uint8
| | | +--ro state
| | | | +--ro default-distance?  uint8
| | | +--rw ospf
| | | | +--rw config
| | | | | +--rw intra-area-distance?  uint8
| | | | | +--rw inter-area-distance?  uint8
| | | | | +--rw external-routes-distance?  uint8
| | | | +--ro state
| | | | | +--ro intra-area-distance?  uint8
| | | | | +--ro inter-area-distance?  uint8
| | | | | +--ro external-routes-distance?  uint8
| | | +--rw networks
| | | | +--rw network* [prefix]
| | | | | +--rw prefix  -> ../config/prefix
| | | | | +--rw config
| | | | | | +--rw prefix?      cml-data-types:cml_ipv4_addr_prefix_t
| | | | | | +--rw distance?    uint8
| | | | | | +--rw access-control-list?  string
| | | | +--ro state
| | | | | +--ro prefix?      cml-data-types:cml_ipv4_addr_prefix_t
| | | | | +--ro distance?    uint8
| | | | | +--ro access-control-list?  string
| +--rw summary-addresses
| | +--rw summary-address* [address]
| | | +--rw address  -> ../config/address
| | | +--rw config

```

```

| | | +--rw address?      cml-data-types:cml_ipv4_prefix_t
| | | +--rw not-advertise? empty
| | | +--rw tag?          uint32
| |   +--ro state
| |     +--ro address?      cml-data-types:cml_ipv4_prefix_t
| |     +--ro not-advertise? empty
| |     +--ro tag?          uint32
|   +--rw distribute-list {feature-list:HAVE_ACL}?
|   | +--rw filter-in
|   | | +--rw config
|   | | | +--rw access-control-list? string
|   | | | +--ro state
|   | | | +--ro access-control-list? string
|   | | +--rw filter-out
|   | | +--rw config
|   | | | +--rw access-control-list-isis? string
|   | | | +--rw access-control-list-bgp? string
|   | | | +--rw access-control-list-rip? string
|   | | | +--rw access-control-list-static? string
|   | | | +--rw access-control-list-connected? string
|   | | | +--rw access-control-list-kernel? string
|   | | +--ro state
|   | | | +--ro access-control-list-isis? string
|   | | | +--ro access-control-list-bgp? string
|   | | | +--ro access-control-list-rip? string
|   | | | +--ro access-control-list-static? string
|   | | | +--ro access-control-list-connected? string
|   | | | +--ro access-control-list-kernel? string
|   | +--rw ospfv2-processes
|   |   +--rw ospfv2-process* [ospf-process-id]
|   |     +--rw ospf-process-id -> ../config/ospf-process-id
|   |     +--rw config
|   |       | +--rw ospf-process-id?          uint16
|   |       | +--rw access-control-list-out-ospf? string
|   |       +--ro state
|   |         +--ro ospf-process-id?          uint16

```

```

| |      +--ro access-control-list-out-ospf?  string
| +--rw domain-id
| | +--rw primary-domain {feature-list:HAVE_VRF_OSPF}?
| | | +--rw config
| | | | +--rw primary-domain-id-address?  inet:ipv4-address
| | | | +--ro state
| | | | +--ro primary-domain-id-address?  inet:ipv4-address
| | | +--rw hexes
| | | | +--rw hex* [primary-hex-type primary-domain-id-hex] {feature-list:HAVE_VRF_OSPF}?
| | | |   +--rw primary-hex-type      -> ../config/primary-hex-type
| | | |   +--rw primary-domain-id-hex -> ../config/primary-domain-id-hex
| | | |   +--rw config
| | | | | +--rw primary-hex-type?      ipi-ospf-types:ospf_domain_type_t
| | | | | +--rw primary-domain-id-hex? ipi-ospf-types:ospf_domain_id_hex_string_t
| | | | +--ro state
| | | |   +--ro primary-hex-type?      ipi-ospf-types:ospf_domain_type_t
| | | |   +--ro primary-domain-id-hex? ipi-ospf-types:ospf_domain_id_hex_string_t
| | +--rw secondary-domain
| | | +--rw addresses
| | | | +--rw address* [secondary-domain-id-address] {feature-list:HAVE_VRF_OSPF}?
| | | |   +--rw secondary-domain-id-address -> ../config/secondary-domain-id-address
| | | |   +--rw config
| | | | | +--rw secondary-domain-id-address?  inet:ipv4-address
| | | | | +--ro state
| | | | | +--ro secondary-domain-id-address?  inet:ipv4-address
| | | +--rw hexes
| | | | +--rw hex* [secondary-hex-type secondary-domain-id-hex] {feature-list:HAVE_VRF_OSPF}?
| | | |   +--rw secondary-hex-type      -> ../config/secondary-hex-type
| | | |   +--rw secondary-domain-id-hex -> ../config/secondary-domain-id-hex
| | | |   +--rw config
| | | | | +--rw secondary-hex-type?      ipi-ospf-types:ospf_domain_type_t
| | | | | +--rw secondary-domain-id-hex? ipi-ospf-types:ospf_domain_id_hex_string_t
| | | | +--ro state
| | | |   +--ro secondary-hex-type?      ipi-ospf-types:ospf_domain_type_t
| | | |   +--ro secondary-domain-id-hex? ipi-ospf-types:ospf_domain_id_hex_string_t
| +--rw distribute {feature-list:HAVE_BGP_LS}?

```

```

| | +--rw bgp-link-state
| |   +--rw config
| |     | +--rw enabled?      empty
| |     | +--rw throttle-timer? uint8
| |     +--ro state
| |       +--ro enabled?      empty
| |       +--ro throttle-timer? uint8
| +--rw neighbors
| | +--rw neighbor* [address]
| |   +--rw address          -> ../config/address
| |   +--rw config
| |     | +--rw address?      inet:ipv4-address
| |     | +--rw cost?         uint16
| |     | +--rw priority?     uint8
| |     | +--rw poll-interval? uint32
| |     +--ro state
| |       | +--ro address?     inet:ipv4-address
| |       | +--ro cost?        uint16
| |       | +--ro priority?    uint8
| |       | +--ro poll-interval? uint32
| |       +--ro neighbor-state-change
| |         | +--ro router-id?      inet:ipv4-address
| |         | +--ro address?        inet:ipv4-address
| |         | +--ro neighbor-address-less-index? uint32
| |         | +--ro neighbor-router-id?      inet:ipv4-address
| |         | +--ro neighbor-state?          ipi-ospf-types:ospf_neighbor_state_change_t
| |       +--ro tx-retransmit
| |         +--ro router-id?      inet:ipv4-address
| |         +--ro address?        inet:ipv4-address
| |         +--ro neighbor-address-less-index? uint32
| |         +--ro neighbor-router-id?      inet:ipv4-address
| |         +--ro packet-type?          ipi-ospf-types:ospf_packet_type_t
| |         +--ro lsdb-type?            ipi-ospf-types:ospf_lsdb_type_t
| |         +--ro lsdb-lsid?            inet:ipv4-address
| |         +--ro lsdb-router-id?      inet:ipv4-address
| +--rw timers

```

```

| | +--rw config
| | +--ro state
| | +--rw lfa
| | | +--rw config
| | | | +--rw termination-hold-interval? uint32 {feature-list:HAVE_OSPF_LFA}?
| | | | +--ro state
| | | | +--ro termination-hold-interval? uint32 {feature-list:HAVE_OSPF_LFA}?
| | | +--rw lsa
| | | | +--rw config
| | | | | +--rw min-arrival-interval? uint32
| | | | | +--ro state
| | | | | +--ro min-arrival-interval? uint32
| | | | +--rw delays
| | | | | +--rw delay* [start-delay min-delay max-delay]
| | | | | | +--rw start-delay -> ../config/start-delay
| | | | | | +--rw min-delay -> ../config/min-delay
| | | | | | +--rw max-delay -> ../config/max-delay
| | | | | +--rw config
| | | | | | +--rw start-delay? uint32
| | | | | | +--rw min-delay? uint32
| | | | | | +--rw max-delay? uint32
| | | | | +--ro state
| | | | | | +--ro start-delay? uint32
| | | | | | +--ro min-delay? uint32
| | | | | | +--ro max-delay? uint32
| | | +--rw spf
| | | | +--rw delay
| | | | | +--rw config!
| | | | | | +--rw min-delay uint32
| | | | | | +--rw max-delay uint32
| | | | | +--ro state
| | | | | | +--ro min-delay uint32
| | | | | | +--ro max-delay uint32
| | +--rw redistribute
| | | +--rw config
| | | | +--rw default-metric? uint32

```

```

| | +--ro state
| | | +--ro default-metric? uint32
| | +--rw routing-protocols
| | | +--rw routing-protocol* [protocol]
| | |   +--rw protocol -> ../config/protocol
| | |   +--rw config
| | | | +--rw protocol? ipi-ospf-types:ospf_route_source_type_t
| | | | +--rw metric? uint32
| | | | +--rw metric-type? ipi-ospf-types:ospf_metric_type_t
| | | | +--rw route-map? string
| | | | +--rw tag? uint32
| | | +--ro state
| | |   +--ro protocol? ipi-ospf-types:ospf_route_source_type_t
| | |   +--ro metric? uint32
| | |   +--ro metric-type? ipi-ospf-types:ospf_metric_type_t
| | |   +--ro route-map? string
| | |   +--ro tag? uint32
| | +--rw ospf-processes
| | | +--rw ospf-process* [ospf-process-id]
| | |   +--rw ospf-process-id -> ../config/ospf-process-id
| | |   +--rw config
| | | | +--rw ospf-process-id? uint16
| | | | +--rw metric? uint32
| | | | +--rw metric-type? ipi-ospf-types:ospf_metric_type_t
| | | | +--rw route-map? string
| | | | +--rw tag? uint32
| | | +--ro state
| | |   +--ro ospf-process-id? uint16
| | |   +--ro metric? uint32
| | |   +--ro metric-type? ipi-ospf-types:ospf_metric_type_t
| | |   +--ro route-map? string
| | |   +--ro tag? uint32
| | +--rw isis-processes
| |   +--rw isis-process* [isis-process-id]
| |   +--rw isis-process-id -> ../config/isis-process-id
| |   +--rw config

```

```

| | | +--rw isis-process-id? string
| | | +--rw metric? uint32
| | | +--rw metric-type? ipi-ospf-types:ospf_metric_type_t
| | | +--rw route-map? string
| | | +--rw tag? uint32
| | +--ro state
| |   +--ro isis-process-id? string
| |   +--ro metric? uint32
| |   +--ro metric-type? ipi-ospf-types:ospf_metric_type_t
| |   +--ro route-map? string
| |   +--ro tag? uint32
| +--ro originate-lsa
| | +--ro router-id? -> /ospfv2/processes/process/state/router-id
| | +--ro lsdb-area-id? inet:ipv4-address
| | +--ro lsdb-type? ipi-ospf-types:ospf_lsdb_type_t
| | +--ro lsdb-id? inet:ipv4-address
| | +--ro lsdb-router-id? inet:ipv4-address
| +--rw max-metric {feature-list:HAVE_OSPF_STUB_ROUTER}?
| | +--rw config!
| | | +--rw enable-max-router-lsa empty
| | | +--rw max-external-lsa? uint32
| | | +--rw max-summary-lsa? uint32
| | | +--rw include-stub? empty
| | +--ro state
| |   +--ro enable-max-router-lsa empty
| |   +--ro max-external-lsa? uint32
| |   +--ro max-summary-lsa? uint32
| |   +--ro include-stub? empty
| +--rw max-metric-on-startup {feature-list:HAVE_OSPF_STUB_ROUTER}?
| | +--rw config!
| | | +--rw max-on-startup uint32
| | | +--rw max-on-startup-external-lsa? uint32
| | | +--rw max-on-startup-summary-lsa? uint32
| | | +--rw on-startup-include-stub? empty
| | +--ro state
| |   +--ro max-on-startup uint32

```

```
| | +--ro max-on-startup-external-lsa? uint32
| | +--ro max-on-startup-summary-lsa? uint32
| | +--ro on-startup-include-stub? empty
| +--rw capability-entropy {feature-list:HAVE_SR_MPLS}?
| | +--rw config
| | | +--rw entropy-capability? empty
| | +--ro state
| | +--ro entropy-capability? empty
| +--ro discovered-neighbors
| +--ro discovered-neighbor* [nbr-address]
| +--ro nbr-address -> ../state/nbr-address
| +--ro state
| +--ro nbr-address? inet:ipv4-address
| +--ro nbr-router-id? inet:ipv4-address
| +--ro nbr-priority? uint8
| +--ro nbr-state? cml-data-types:cml_line_t
| +--ro dead-time? string
| +--ro if-name? string
| +--ro instanceid? uint8
+--rw traffic-engineering-links {feature-list:HAVE_OSPF_TE,feature-list:HAVE_GMPLS}?
| +--rw traffic-engineering-link* [teName]
| +--rw teName -> ../config/teName
| +--rw config
| | +--rw teName? string
| | +--rw metric? uint16
| | +--rw link-local-exchange? empty
| +--ro state
| | +--ro teName? string
| | +--ro metric? uint16
| | +--ro link-local-exchange? empty
| +--rw flooding
| +--rw ospfv2-processes
| +--rw ospfv2-process* [ospf-process-id area-id]
| +--rw ospf-process-id -> ../config/ospf-process-id
| +--rw area-id -> ../config/area-id
| +--rw config
```

```

|         | +--rw ospf-process-id?  uint16
|         | +--rw area-id?          ipi-ospf-types:ospf_area_t
|         +--ro state
|             +--ro ospf-process-id?  uint16
|             +--ro area-id?          ipi-ospf-types:ospf_area_t
+--rw multi-area-interfaces {feature-list:HAVE_OSPF_MULTI_AREA}?
| +--rw multi-area-interface* [name]
|   +--rw name                -> ../config/name
|   +--rw config
|     | +--rw name? -> /ipi-interface:interfaces/interface/name
|     +--ro state
|     | +--ro name? -> /ipi-interface:interfaces/interface/name
|     +--rw ospfv2-processes
|       +--rw ospfv2-process* [ospf-process-id]
|         +--rw ospf-process-id      -> ../config/ospf-process-id
|         +--rw config
|           | +--rw ospf-process-id?  uint16
|           +--ro state
|           | +--ro ospf-process-id?  uint16
|           +--rw multi-areas
|             | +--rw multi-area* [area-id]
|             |   +--rw area-id      -> ../config/area-id
|             |   +--rw config
|             |     | +--rw area-id?  ipi-ospf-types:ospf_area_t
|             |     +--ro state
|             |       +--ro area-id?  ipi-ospf-types:ospf_area_t
|             +--rw multi-areas-neighbors
|               +--rw multi-area-neighbor* [area-id]
|                 +--rw area-id      -> ../config/area-id
|                 +--rw config
|                   | +--rw area-id?  ipi-ospf-types:ospf_area_t
|                   | +--rw neighbor  inet:ipv4-address
|                   +--ro state
|                     +--ro area-id?  ipi-ospf-types:ospf_area_t
|                     +--ro neighbor  inet:ipv4-address
+--rw debug

```

```

| +--rw config
| | +--rw bfd?                empty {feature-list:HAVE_BFD}?
| | +--rw rate-limit?         empty
| | +--rw segment-routing?     empty {feature-list:HAVE_SR_MPLS}?
| | +--rw route?              ipi-ospf-types:ospf_debug_route_t
| | +--rw rib?                ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
| | +--rw nsm?                ipi-ospf-types:ospf_debug_nsm_t
| | +--rw nfsm?               ipi-ospf-types:ospf_debug_nfsm_t
| | +--rw lsa?                ipi-ospf-types:ospf_debug_lsa_t
| | +--rw ifsm?               ipi-ospf-types:ospf_debug_ifsm_t
| | +--rw events?             ipi-ospf-types:ospf_debug_event_t
| | +--rw cspf-events?        empty {feature-list:HAVE_OSPF_CSPF}?
| | +--rw cspf-hexdump?       empty {feature-list:HAVE_OSPF_CSPF}?
| | +--rw retransmission?     empty
| | +--rw distribute?         empty {feature-list:HAVE_BGP_LS}?
| | +--rw topology-independent-lfa? empty {feature-list:HAVE_OSPF_TI_LFA}?
| | +--rw lfa?                empty {feature-list:HAVE_OSPF_LFA}?
| | +--rw policy?             empty
| | +--rw redistribute?       ipi-ospf-types:ospf_debug_redist_t
| | +--rw graceful-restart?   ipi-ospf-types:ospf_debug_graceful_t
| | +--rw packet-hello?       ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-dd?          ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-request?   ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-update?    ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-ack?      ipi-ospf-types:ospf_debug_packet_options_t
| +--ro state
|   +--ro bfd?                empty {feature-list:HAVE_BFD}?
|   +--ro rate-limit?         empty
|   +--ro segment-routing?     empty {feature-list:HAVE_SR_MPLS}?
|   +--ro route?              ipi-ospf-types:ospf_debug_route_t
|   +--ro rib?                ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
|   +--ro nsm?                ipi-ospf-types:ospf_debug_nsm_t
|   +--ro nfsm?               ipi-ospf-types:ospf_debug_nfsm_t
|   +--ro lsa?                ipi-ospf-types:ospf_debug_lsa_t
|   +--ro ifsm?               ipi-ospf-types:ospf_debug_ifsm_t
|   +--ro events?             ipi-ospf-types:ospf_debug_event_t

```

```

| +--ro cspf-events?          empty {feature-list:HAVE_OSPF_CSPF}?
| +--ro cspf-hexdump?         empty {feature-list:HAVE_OSPF_CSPF}?
| +--ro retransmission?       empty
| +--ro distribute?           empty {feature-list:HAVE_BGP_LS}?
| +--ro topology-independent-lfa? empty {feature-list:HAVE_OSPF_TI_LFA}?
| +--ro lfa?                   empty {feature-list:HAVE_OSPF_LFA}?
| +--ro policy?               empty
| +--ro redistribute?         ipi-ospf-types:ospf_debug_redist_t
| +--ro graceful-restart?     ipi-ospf-types:ospf_debug_graceful_t
| +--ro packet-hello?         ipi-ospf-types:ospf_debug_packet_options_t
| +--ro packet-dd?            ipi-ospf-types:ospf_debug_packet_options_t
| +--ro packet-ls-request?     ipi-ospf-types:ospf_debug_packet_options_t
| +--ro packet-ls-update?     ipi-ospf-types:ospf_debug_packet_options_t
| +--ro packet-ls-ack?        ipi-ospf-types:ospf_debug_packet_options_t
| +--ro terminal-debug-status
|   +--ro bfd?                cml-data-types:cml_on_off_t {feature-list:HAVE_BFD}?
|   +--ro rate-limit?         cml-data-types:cml_on_off_t
|   +--ro segment-routing?     cml-data-types:cml_on_off_t {feature-list:HAVE_SR_MPLS}?
|   +--ro route?              ipi-ospf-types:ospf_debug_route_t
|   +--ro rib?                 ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
|   +--ro nsm?                 ipi-ospf-types:ospf_debug_nsm_t
|   +--ro nfsm?                ipi-ospf-types:ospf_debug_nfsm_t
|   +--ro lsa?                 ipi-ospf-types:ospf_debug_lsa_t
|   +--ro ifsm?                ipi-ospf-types:ospf_debug_ifsm_t
|   +--ro events?              ipi-ospf-types:ospf_debug_event_t
|   +--ro cspf-events?         cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_CSPF}?
|   +--ro cspf-hexdump?        cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_CSPF}?
|   +--ro retransmission?      cml-data-types:cml_on_off_t
|   +--ro distribute?          cml-data-types:cml_on_off_t {feature-list:HAVE_BGP_LS}?
|   +--ro topology-independent-lfa? cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_TI_LFA}?
|   +--ro lfa?                 cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_LFA}?
|   +--ro policy?              cml-data-types:cml_on_off_t
|   +--ro redistribute?        ipi-ospf-types:ospf_debug_redist_t
|   +--ro graceful-restart?    ipi-ospf-types:ospf_debug_graceful_t
|   +--ro packet-hello?        ipi-ospf-types:ospf_debug_packet_options_t
|   +--ro packet-dd?           ipi-ospf-types:ospf_debug_packet_options_t

```

```

|   +--ro packet-ls-request?      ipi-ospf-types:ospf_debug_packet_options_t
|   +--ro packet-ls-update?      ipi-ospf-types:ospf_debug_packet_options_t
|   +--ro packet-ls-ack?         ipi-ospf-types:ospf_debug_packet_options_t
+--rw interfaces
  +--rw interface* [name]
    +--rw name                    -> ../config/name
    +--rw config
      | +--rw cost?                uint16
      | +--rw priority?           uint8
      | +--rw mtu-ignore?         empty
      | +--rw name?               -> /ipi-interface:interfaces/interface/name
      | +--rw network-type?       ipi-ospf-types:ospf_network_t
      | +--rw disable-all-ospf?   empty
      | +--rw traffic-engineering-metric? uint16 {feature-list:HAVE_OSPF_TE}?
      | +--rw mtu?                uint16
      | +--rw enable-flood-reduction? empty
      | +--rw enable-demand-circuit? empty {feature-list:HAVE_OSPF_OD,feature-
list:HAVE_OSPF_MULTI_INST}?
      | +--rw enable-bfd?         ipi-ospf-types:ospf_bfd_state {feature-list:HAVE_BFD}?
      | +--rw disable-fast-reroute? empty {feature-list:HAVE_OSPF_LFA}?
      +--ro state
        | +--ro cost?             uint16
        | +--ro priority?         uint8
        | +--ro mtu-ignore?       empty
        | +--ro name?             -> /ipi-interface:interfaces/interface/name
        | +--ro network-type?     ipi-ospf-types:ospf_network_t
        | +--ro disable-all-ospf? empty
        | +--ro traffic-engineering-metric? uint16 {feature-list:HAVE_OSPF_TE}?
        | +--ro mtu?              uint16
        | +--ro enable-flood-reduction? empty
        | +--ro enable-demand-circuit? empty {feature-list:HAVE_OSPF_OD,feature-
list:HAVE_OSPF_MULTI_INST}?
        | +--ro enable-bfd?       ipi-ospf-types:ospf_bfd_state {feature-list:HAVE_BFD}?
        | +--ro disable-fast-reroute? empty {feature-list:HAVE_OSPF_LFA}?
        | +--ro link-state-change
        | | +--ro router-id?      inet:ipv4-address
        | | +--ro name?          string

```

```

| | +--ro interface-address?    inet:ipv4-address
| | +--ro address-less-interface? uint32
| | +--ro interface-state?      ipi-ospf-types:ospf_interface_state_t
| +--ro rx-bad-packet
| | +--ro router-id?           inet:ipv4-address
| | +--ro name?                string
| | +--ro interface-address?    inet:ipv4-address
| | +--ro address-less-interface? uint32
| | +--ro packet-src?          inet:ipv4-address
| | +--ro packet-type?         ipi-ospf-types:ospf_packet_type_t
| +--ro interface-config-error
|   +--ro router-id?           inet:ipv4-address
|   +--ro name?                string
|   +--ro interface-address?    inet:ipv4-address
|   +--ro address-less-interface? uint32
|   +--ro error-type?          ipi-ospf-types:ospf_config_error_type_t
|   +--ro packet-type?         ipi-ospf-types:ospf_packet_type_t
+--ro interface-states
| +--ro state
| | +--ro interface-state?      int32
| | +--ro lsa-count?           int32
| | +--ro lsa-checksum?        int32
| | +--ro interface-events?     int32
| | +--ro addressless-interface? int32
| +--ro statistics
| | +--ro errors
| | | +--ro discarded-in?       yang:counter64
| | | +--ro discarded-out?      yang:counter64
| | | +--ro hello-in?          yang:counter64
| | | +--ro database-descriptor-in? yang:counter64
| | | +--ro ls-request-in?      yang:counter64
| | | +--ro ls-update-in?       yang:counter64
| | | +--ro ls-acknowledge-in?   yang:counter64
| | | +--ro unknown-in?         yang:counter64
| | | +--ro unknown-out?        yang:counter64
| | | +--ro bad-version?        yang:counter64

```

```

| | | +--ro bad-crc?          yang:counter64
| | | +--ro invalid-source?   yang:counter64
| | | +--ro invalid-destination? yang:counter64
| | | +--ro no-neighbor?      yang:counter64
| | | +--ro passive?          yang:counter64
| | | +--ro wrong-area?       yang:counter64
| | | +--ro packet-length?     yang:counter64
| | | +--ro authentication?    yang:counter64
| | +--ro traffic
| |   +--ro total-packets-in?   yang:counter64
| |   +--ro total-packets-out?  yang:counter64
| |   +--ro hello-packets-in?   yang:counter64
| |   +--ro hello-packets-out?  yang:counter64
| |   +--ro database-descriptor-packets-in? yang:counter64
| |   +--ro database-descriptor-packets-out? yang:counter64
| |   +--ro ls-request-packets-in? yang:counter64
| |   +--ro ls-request-packets-out? yang:counter64
| |   +--ro ls-update-packets-in? yang:counter64
| |   +--ro ls-update-packets-out? yang:counter64
| |   +--ro ls-acknowledge-packets-in? yang:counter64
| |   +--ro ls-acknowledge-packets-out? yang:counter64
| +--ro designated-router
| | +--ro state
| |   +--ro router-id?  inet:ipv4-address
| |   +--ro address?    inet:ipv4-address
| +--ro backup-designated-router
| | +--ro state
| |   +--ro router-id?  inet:ipv4-address
| |   +--ro address?    inet:ipv4-address
| +--ro timers
|   +--ro state
|     +--ro runtime-dead-interval? uint32
+--rw authentication
| +--rw config
| | +--rw authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
| | +--rw key?                  ipi-ospf-types:ospf_md5_password_t

```

```

| +--ro state
| | +--ro authentication-type? ipi-ospf-types:ospf_if_authentication_type_t
| | +--ro key? ipi-ospf-types:ospf_md5_password_t
| +--rw message-digests
|   +--rw message-digest* [message-digest-id]
|     +--rw message-digest-id -> ../config/message-digest-id
|     +--rw config
|       | +--rw message-digest-id? uint8
|       | +--rw message-digest-encryption-type ipi-ospf-types:ospf_cipher_type_t
|       | +--rw message-digest-key ipi-ospf-types:ospf_md5_password_t
|       +--ro state
|         +--ro message-digest-id? uint8
|         +--ro message-digest-encryption-type ipi-ospf-types:ospf_cipher_type_t
|         +--ro message-digest-key ipi-ospf-types:ospf_md5_password_t
+--rw database-filter
| +--rw lsa
|   +--rw config
|     | +--rw filter-out? empty
|     +--ro state
|       +--ro filter-out? empty
+--rw timers
| +--rw config
| | +--rw dead-interval? uint16
| | +--rw hello-interval? uint16
| | +--rw retransmission-interval? uint16
| | +--rw transmit-delay? uint16
| | +--rw resync-timeout? uint16
| | +--rw ldp-igp-sync-enable? empty {feature-list:HAVE_LDPD}?
| | +--rw holddown-timer? uint32 {feature-list:HAVE_LDPD}?
| +--ro state
|   +--ro dead-interval? uint16
|   +--ro hello-interval? uint16
|   +--ro retransmission-interval? uint16
|   +--ro transmit-delay? uint16
|   +--ro resync-timeout? uint16
|   +--ro ldp-igp-sync-enable? empty {feature-list:HAVE_LDPD}?

```

```

|   +--ro holddown-timer?          uint32 {feature-list:HAVE_LDPD}?
+--rw addresses
  +--rw address* [interface-address]
    +--rw interface-address  -> ../config/interface-address
    +--rw config
      | +--rw interface-address?  inet:ipv4-address
      | +--rw cost?              uint16
      | +--rw priority?          uint8
      | +--rw mtu-ignore?        empty
      +--ro state
        | +--ro interface-address?  inet:ipv4-address
        | +--ro cost?              uint16
        | +--ro priority?          uint8
        | +--ro mtu-ignore?        empty
        | +--ro designated-router
        | | +--ro state
        | |   +--ro router-id?  inet:ipv4-address
        | |   +--ro address?    inet:ipv4-address
        | +--ro backup-designated-router
        | | +--ro state
        | |   +--ro router-id?  inet:ipv4-address
        | |   +--ro address?    inet:ipv4-address
        | +--ro timers
        |   +--ro state
        |     +--ro runtime-dead-interval?  uint32
      +--rw authentication
        | +--rw config
        | | +--rw authentication-type?  ipi-ospf-types:ospf_if_authentication_type_t
        | | +--rw key?                  ipi-ospf-types:ospf_md5_password_t
        | +--ro state
        | | +--ro authentication-type?  ipi-ospf-types:ospf_if_authentication_type_t
        | | +--ro key?                  ipi-ospf-types:ospf_md5_password_t
        | +--rw message-digests
        |   +--rw message-digest* [message-digest-id]
        |     +--rw message-digest-id  -> ../config/message-digest-id
        |     +--rw config

```

```

| | +--rw message-digest-id?          uint8
| | +--rw message-digest-encryption-type  ipi-ospf-types:ospf_cipher_type_t
| | +--rw message-digest-key          ipi-ospf-types:ospf_md5_password_t
|   +--ro state
|     +--ro message-digest-id?          uint8
|     +--ro message-digest-encryption-type  ipi-ospf-types:ospf_cipher_type_t
|     +--ro message-digest-key          ipi-ospf-types:ospf_md5_password_t
+--rw timers
| +--rw config
| | +--rw dead-interval?          uint16
| | +--rw hello-interval?        uint16
| | +--rw retransmission-interval? uint16
| | +--rw transmit-delay?        uint16
| | +--rw resync-timeout?        uint16
|   +--ro state
|     +--ro dead-interval?        uint16
|     +--ro hello-interval?      uint16
|     +--ro retransmission-interval? uint16
|     +--ro transmit-delay?      uint16
|     +--ro resync-timeout?      uint16
+--rw database-filter
  +--rw lsa
    +--rw config
    | +--rw filter-out?  empty
    +--ro state
      +--ro filter-out?  empty

```

rpcs:

```

+---x ospfv2-terminal-debug-ospf-all-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-ospf-all-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-bfd-on {feature-list:HAVE_BFD}?
+---x ospfv2-terminal-debug-bfd-off {feature-list:HAVE_BFD}?
+---x ospfv2-terminal-debug-rate-limit-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-rate-limit-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-sr-on {feature-list:HAVE_SR_MPLS}?
+---x ospfv2-terminal-debug-sr-off {feature-list:HAVE_SR_MPLS}?

```

```

+---x ospfv2-terminal-debug-route-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w route   ipi-ospf-types:ospf_debug_route_t
+---x ospfv2-terminal-debug-route-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w route   ipi-ospf-types:ospf_debug_route_t
+---x ospfv2-terminal-debug-rib-on {feature-list:HAVE_RIBD}?
| +---w input
|   +---w rib     ipi-ospf-types:ospf_debug_rib_t
+---x ospfv2-terminal-debug-rib-off {feature-list:HAVE_RIBD}?
| +---w input
|   +---w rib     ipi-ospf-types:ospf_debug_rib_t
+---x ospfv2-terminal-debug-packet-all-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w all     ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-all-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w all     ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-hello-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w hello   ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-hello-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w hello   ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-dd-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w dd      ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-dd-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w dd      ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-ls-request-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-request ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-ls-request-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-request ipi-ospf-types:ospf_debug_packet_options_t

```

```
+---x ospfv2-terminal-debug-packet-ls-update-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-update   ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-ls-update-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-update   ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-ls-ack-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-ack      ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-packet-ls-ack-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ls-ack      ipi-ospf-types:ospf_debug_packet_options_t
+---x ospfv2-terminal-debug-nsm-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w nsm         ipi-ospf-types:ospf_debug_nsm_t
+---x ospfv2-terminal-debug-nsm-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w nsm         ipi-ospf-types:ospf_debug_nsm_t
+---x ospfv2-terminal-debug-nfsm-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w nfsm        ipi-ospf-types:ospf_debug_nfsm_t
+---x ospfv2-terminal-debug-nfsm-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w nfsm        ipi-ospf-types:ospf_debug_nfsm_t
+---x ospfv2-terminal-debug-lsa-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w lsa         ipi-ospf-types:ospf_debug_lsa_t
+---x ospfv2-terminal-debug-lsa-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w lsa         ipi-ospf-types:ospf_debug_lsa_t
+---x ospfv2-terminal-debug-ifsm-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ifsm        ipi-ospf-types:ospf_debug_ifsm_t
+---x ospfv2-terminal-debug-ifsm-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w ifsm        ipi-ospf-types:ospf_debug_ifsm_t
```

```

+---x ospfv2-terminal-debug-events-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w events   ipi-ospf-types:ospf_debug_event_t
+---x ospfv2-terminal-debug-events-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w events   ipi-ospf-types:ospf_debug_event_t
+---x ospfv2-terminal-debug-cspf-all-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-all-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-events-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-events-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-hexdump-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-hexdump-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-all-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-all-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-retransmission-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-retransmission-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-dist-ls-on {feature-list:HAVE_BGP_LS}?
+---x ospfv2-terminal-debug-dist-ls-off {feature-label:HAVE_BGP_LS}?
+---x ospfv2-terminal-debug-topology-independent-lfa-on {feature-list:HAVE_OSPF_TI_LFA}?
+---x ospfv2-terminal-debug-topology-independent-lfa-off {feature-list:HAVE_OSPF_TI_LFA}?
+---x ospfv2-terminal-debug-lfa-on {feature-list:HAVE_OSPF_LFA}?
+---x ospfv2-terminal-debug-lfa-off {feature-list:HAVE_OSPF_LFA}?
+---x ospfv2-terminal-debug-policy-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-policy-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-redistribute-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w redistribute   ipi-ospf-types:ospf_debug_redist_t
+---x ospfv2-terminal-debug-redistribute-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w redistribute   ipi-ospf-types:ospf_debug_redist_t
+---x ospfv2-terminal-debug-graceful-restart-on {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w graceful-restart   ipi-ospf-types:ospf_debug_graceful_t
+---x ospfv2-terminal-debug-graceful-restart-off {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w graceful-restart   ipi-ospf-types:ospf_debug_graceful_t

```

```

+---x ospfv2-clear-process {feature-list:HAVE_OSPFD}?
| +---w input
|   +---w process-id   uint16
+---x ospfv2-clear-process-all {feature-list:HAVE_OSPFD}?
+---x ospfv2-restart-graceful {feature-list:HAVE_RESTART}?
| +---w input
|   +---w grace-period  uint16
+---x ospfv2-snmp-restart {feature-list:HAVE_SNMP}?

```

notifications:

```

+---n ospfv2-neighbor-state-change
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro address?           inet:ipv4-address
| +--ro ospf-id?           uint16
| +--ro router-id?         inet:ipv4-address
| +--ro neighbor-address-less-index? uint32
| +--ro neighbor-router-id? inet:ipv4-address
| +--ro neighbor-state?     ipi-ospf-types:ospf_neighbor_state_change_t
+---n ospfv2-tx-retransmit
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro address?           inet:ipv4-address
| +--ro ospf-id?           uint16
| +--ro router-id?         inet:ipv4-address
| +--ro neighbor-address-less-index? uint32
| +--ro neighbor-router-id? inet:ipv4-address
| +--ro packet-type?       ipi-ospf-types:ospf_packet_type_t
| +--ro lsdb-type?         ipi-ospf-types:ospf_lsdb_type_t
| +--ro lsdb-lsdb?         inet:ipv4-address
| +--ro lsdb-router-id?    inet:ipv4-address
+---n ospfv2-originate-lsa
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro ospf-id?           uint16
| +--ro router-id?         inet:ipv4-address

```

```

| +--ro lsdb-area-id?   inet:ipv4-address
| +--ro lsdb-type?     ipi-ospf-types:ospf_lsdb_type_t
| +--ro lsdb-id?       inet:ipv4-address
| +--ro lsdb-router-id? inet:ipv4-address
+---n ospfv2-lsdb-overflow-external-lsa
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro ospf-id?      uint16
| +--ro router-id?    inet:ipv4-address
| +--ro max-limit?    uint32
+---n ospfv2-virtual-link-interface-config-error
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?      ipi-ospf-types:ospf_area_t
| +--ro ospf-id?      uint16
| +--ro router-id?    inet:ipv4-address
| +--ro error-type?   ipi-ospf-types:ospf_config_error_type_t
| +--ro packet-type?  ipi-ospf-types:ospf_packet_type_t
+---n ospfv2-virtual-link-interface-state-change
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?      ipi-ospf-types:ospf_area_t
| +--ro ospf-id?      uint16
| +--ro router-id?    inet:ipv4-address
| +--ro interface-state? ipi-ospf-types:ospf_interface_state_t
+---n ospfv2-virtual-neighbor-state-change
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?      ipi-ospf-types:ospf_area_t
| +--ro ospf-id?      uint16
| +--ro router-id?    inet:ipv4-address
| +--ro neighbor-state? ipi-ospf-types:ospf_neighbor_state_change_t
+---n ospfv2-virtual-link-interface-rx-bad-packet

```

```
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?       ipi-ospf-types:ospf_area_t
| +--ro ospf-id?       uint16
| +--ro router-id?     inet:ipv4-address
| +--ro packet-type?   ipi-ospf-types:ospf_packet_type_t
+---n ospfv2-virtual-link-interface-tx-retransmit
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?       ipi-ospf-types:ospf_area_t
| +--ro ospf-id?       uint16
| +--ro router-id?     inet:ipv4-address
| +--ro packet-type?   ipi-ospf-types:ospf_packet_type_t
| +--ro lsdb-type?     ipi-ospf-types:ospf_lsdb_type_t
| +--ro lsdb-ls-id?    inet:ipv4-address
| +--ro lsdb-router-id? inet:ipv4-address
+---n ospfv2-interface-link-state-change
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro router-id?     inet:ipv4-address
| +--ro interface-address? inet:ipv4-address
| +--ro address-less-interface? uint32
| +--ro interface-state? ipi-ospf-types:ospf_interface_state_t
+---n ospfv2-interface-rx-bad-packet
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro router-id?     inet:ipv4-address
| +--ro interface-address? inet:ipv4-address
| +--ro address-less-interface? uint32
| +--ro packet-src?     inet:ipv4-address
| +--ro packet-type?   ipi-ospf-types:ospf_packet_type_t
+---n ospfv2-interface-config-error
```

```

+--ro severity?          cml-data-types:cml_notif_severity_t
+--ro eventClass?        cml-data-types:cml_notif_class_t
+--ro name?              string
+--ro router-id?         inet:ipv4-address
+--ro interface-address? inet:ipv4-address
+--ro address-less-interface? uint32
+--ro error-type?        ipi-ospf-types:ospf_config_error_type_t
+--ro packet-type?       ipi-ospf-types:ospf_packet_type_t

```

ipi-ospfv3

```

+--rw ospfv3
  +--rw global
    | +--rw config
    | | +--rw display-route-on-single-line? empty
    | +--ro state
    | | +--ro display-route-on-single-line? empty
    | +--rw graceful-restart {feature-list:HAVE_RESTART}?
    |   +--rw config
    |   | +--rw grace-period?          uint16
    |   | +--rw controlled-restarts-only? empty
    |   +--ro state
    |   | +--ro grace-period?          uint16
    |   | +--ro controlled-restarts-only? empty
    |   +--rw helper

```

```

|   +--rw config
|   |   +--rw max-grace-period?    uint16
|   |   +--rw disable-all-neighbors?  empty
|   |   +--rw disable-neighbor*    inet:ipv4-address
|   +--ro state
|       +--ro max-grace-period?    uint16
|       +--ro disable-all-neighbors?  empty
|       +--ro disable-neighbor*    inet:ipv4-address
+--rw processes
| +--rw process* [ospfv3-id]
|   +--rw ospfv3-id          -> ../config/ospfv3-id
|   +--rw config
|   |   +--rw ospfv3-id?          ipi-ospfv3-types:ospfv3_string_t
|   |   +--rw vrf-name            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|   |   +--rw router-id?          inet:ipv4-address
|   |   +--rw bfd-enable-all-interfaces?  empty {feature-list:HAVE_BFD}?
|   |   +--rw database-summary?      empty
|   |   +--rw area-border-type?      ipi-ospfv3-types:ospfv3_abr_type_t
|   |   +--rw default-metric?        uint32
|   |   +--rw shutdown?            empty
|   |   +--rw log-adjacency-changes?  ipi-ospfv3-types:ospfv3_log_adj_opt_t
|   |   +--rw reference-bandwidth?    uint32
|   |   +--rw max-database-descriptors?  uint16
|   +--ro state
|   |   +--ro statistics
|   |   |   +--ro up-time?          string
|   |   |   +--ro database-description-in?  yang:counter64
|   |   |   +--ro database-description-out? yang:counter64
|   |   |   +--ro external-lsa-count?  yang:counter64
|   |   |   +--ro external-lsa-checksum? string
|   |   |   +--ro unknown-lsa-count?   yang:counter64
|   |   |   +--ro lsa-out?            yang:counter64
|   |   |   +--ro lsa-in?             yang:counter64
|   |   |   +--ro area-count?         yang:counter64
|   |   +--ro ospfv3-id?            ipi-ospfv3-types:ospfv3_string_t

```

```

| | +--ro vrf-name          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | +--ro router-id?       inet:ipv4-address
| | +--ro bfd-enable-all-interfaces? empty {feature-list:HAVE_BFD}?
| | +--ro database-summary? empty
| | +--ro area-border-type? ipi-ospfv3-types:ospfv3_abr_type_t
| | +--ro default-metric?   uint32
| | +--ro shutdown?        empty
| | +--ro log-adjacency-changes? ipi-ospfv3-types:ospfv3_log_adj_opt_t
| | +--ro reference-bandwidth? uint32
| | +--ro max-database-descriptors? uint16
| +--ro link-state-database
| | +--ro link* [link-index]
| | | +--ro link-index -> ../state/link-index
| | | +--ro lsa-prefix* [prefix]
| | | | +--ro prefix -> ../state/prefix
| | | | +--ro state
| | | | | +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
| | | | | +--ro no-unicast-bit? empty
| | | | | +--ro prefix-options? ipi-ospfv3-types:ospfv3_prefix_options_t
| | | | +--ro state
| | | | | +--ro link-index?   uint32
| | | | | +--ro link-local-address? inet:ipv6-address
| | | | | +--ro priority?     uint8
| | | | | +--ro interface-name? string
| | | | | +--ro prefix-count?  uint32
| | | | | +--ro advertising-router? inet:ipv4-address
| | | | | +--ro ls-age?       uint16
| | | | | +--ro ls-type?      ipi-ospfv3-types:ospfv3_ls_type_t
| | | | | +--ro ls-id?        string
| | | | | +--ro ls-sequence-number? string
| | | | | +--ro ls-checksum?   string
| | | | | +--ro ls-length?     uint16
| | | | | +--ro ls-options?    ipi-ospfv3-types:ospfv3_ls_options_t
| | +--ro router* [router-index]
| | | +--ro router-index -> ../state/router-index
| | | +--ro link* [link-index]

```

```

| | | +--ro link-index -> ../state/link-index
| | | +--ro state
| | |   +--ro link-index?      uint32
| | |   +--ro neighbor-router-id?  inet:ipv4-address
| | |   +--ro neighbor-interface-id? uint32
| | |   +--ro interface-id?      uint32
| | |   +--ro metric?           uint16
| | |   +--ro metric-type?      ipi-ospfv3-types:ospfv3_link_metric_type_t
| | | +--ro state
| | |   +--ro router-index?      uint32
| | |   +--ro area-id?          inet:ipv4-address
| | |   +--ro ls-router-properties? ipi-ospfv3-types:ospfv3_router_properties_t
| | |   +--ro advertising-router? inet:ipv4-address
| | |   +--ro ls-age?           uint16
| | |   +--ro ls-type?          ipi-ospfv3-types:ospfv3_ls_type_t
| | |   +--ro ls-id?           string
| | |   +--ro ls-sequence-number? string
| | |   +--ro ls-checksum?      string
| | |   +--ro ls-length?       uint16
| | |   +--ro ls-options?      ipi-ospfv3-types:ospfv3_ls_options_t
| | +--ro network* [advertising-router]
| |   +--ro advertising-router -> ../state/advertising-router
| |   +--ro state
| |     +--ro advertising-router? inet:ipv4-address
| |     +--ro ls-age?            uint16
| |     +--ro ls-type?          ipi-ospfv3-types:ospfv3_ls_type_t
| |     +--ro ls-id?            string
| |     +--ro ls-sequence-number? string
| |     +--ro ls-checksum?      string
| |     +--ro ls-length?       uint16
| |     +--ro ls-options?      ipi-ospfv3-types:ospfv3_ls_options_t
| |     +--ro attached-router*  inet:ipv4-address
| | +--ro intra-prefix* [intra-prefix-index]
| |   +--ro intra-prefix-index -> ../state/intra-prefix-index
| |   +--ro lsa-prefix* [prefix]
| |     +--ro prefix -> ../state/prefix

```

```

|   |   | +--ro state
|   |   |   +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
|   |   |   +--ro no-unicast-bit? empty
|   |   |   +--ro prefix-options? ipi-ospfv3-types:ospfv3_prefix_options_t
|   |   |   +--ro metric?      uint16
|   |   +--ro state
|   |   |   +--ro intra-prefix-index?      uint32
|   |   |   +--ro area-id?                  inet:ipv4-address
|   |   |   +--ro referenced-ls-advertising-router? inet:ipv4-address
|   |   |   +--ro referenced-ls-id?          string
|   |   |   +--ro referenced-ls-type?        string
|   |   |   +--ro prefix-count?              uint32
|   |   |   +--ro advertising-router?        inet:ipv4-address
|   |   |   +--ro ls-age?                     uint16
|   |   |   +--ro ls-type?                     ipi-ospfv3-types:ospfv3_ls_type_t
|   |   |   +--ro ls-id?                       string
|   |   |   +--ro ls-sequence-number?          string
|   |   |   +--ro ls-checksum?                  string
|   |   |   +--ro ls-length?                     uint16
|   |   +--ro inter-prefix* [inter-prefix-index]
|   |   |   +--ro inter-prefix-index -> ../state/inter-prefix-index
|   |   |   +--ro lsa-prefix* [prefix]
|   |   |   |   +--ro prefix -> ../state/prefix
|   |   |   |   +--ro state
|   |   |   |   |   +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
|   |   |   |   |   +--ro no-unicast-bit? empty
|   |   |   |   |   +--ro prefix-options? ipi-ospfv3-types:ospfv3_prefix_options_t
|   |   |   |   |   +--ro metric?      uint16
|   |   |   |   +--ro state
|   |   |   |   |   +--ro inter-prefix-index? uint32
|   |   |   |   |   +--ro area-id?          inet:ipv4-address
|   |   |   |   |   +--ro advertising-router? inet:ipv4-address
|   |   |   |   |   +--ro ls-age?           uint16
|   |   |   |   |   +--ro ls-type?          ipi-ospfv3-types:ospfv3_ls_type_t
|   |   |   |   |   +--ro ls-id?            string
|   |   |   |   +--ro ls-sequence-number? string

```

```

| | | +--ro ls-checksum?      string
| | | +--ro ls-length?       uint16
| | +--ro inter-router* [inter-router-index]
| | | +--ro inter-router-index -> ../state/inter-router-index
| | | +--ro state
| | |   +--ro inter-router-index? uint32
| | |   +--ro area-id?          inet:ipv4-address
| | |   +--ro router-id?       inet:ipv4-address
| | |   +--ro advertising-router? inet:ipv4-address
| | |   +--ro ls-age?          uint16
| | |   +--ro ls-type?         ipi-ospfv3-types:ospfv3_ls_type_t
| | |   +--ro ls-id?          string
| | |   +--ro ls-sequence-number? string
| | |   +--ro ls-checksum?     string
| | |   +--ro ls-length?      uint16
| | |   +--ro metric?         uint16
| | |   +--ro ls-options?     ipi-ospfv3-types:ospfv3_ls_options_t
| | +--ro external* [external-index]
| | | +--ro external-index -> ../state/external-index
| | | +--ro lsa-prefix* [prefix]
| | | | +--ro prefix -> ../state/prefix
| | | | +--ro state
| | | |   +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
| | | |   +--ro no-unicast-bit? empty
| | | |   +--ro prefix-options? ipi-ospfv3-types:ospfv3_prefix_options_t
| | | +--ro state
| | |   +--ro external-index? uint32
| | |   +--ro referenced-ls-id? string
| | |   +--ro referenced-ls-type? uint32
| | |   +--ro route-tag?      uint32
| | |   +--ro forwarding-address? inet:ip-address
| | |   +--ro metric?        uint16
| | |   +--ro metric-type?   ipi-ospfv3-types:ospfv3_ls_metric_type_t
| | |   +--ro advertising-router? inet:ipv4-address
| | |   +--ro ls-age?        uint16
| | |   +--ro ls-type?       ipi-ospfv3-types:ospfv3_ls_type_t

```

```

| | | +--ro ls-id?          string
| | | +--ro ls-sequence-number? string
| | | +--ro ls-checksum?     string
| | | +--ro ls-length?       uint16
| | +--ro not-so-stubby-area* [nssa-index]
| |   +--ro nssa-index -> ../state/nssa-index
| |   +--ro lsa-prefix* [prefix]
| |     | +--ro prefix -> ../state/prefix
| |     | +--ro state
| |     |   +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
| |     |   +--ro no-unicast-bit? empty
| |     |   +--ro prefix-options? ipi-ospfv3-types:ospfv3_prefix_options_t
| |     +--ro state
| |       +--ro nssa-index?      uint32
| |       +--ro referenced-ls-id? string
| |       +--ro referenced-ls-type? uint32
| |       +--ro route-tag?       uint32
| |       +--ro forwarding-address? inet:ip-address
| |       +--ro metric?          uint16
| |       +--ro metric-type?      ipi-ospfv3-types:ospfv3_ls_metric_type_t
| |       +--ro advertising-router? inet:ipv4-address
| |       +--ro ls-age?          uint16
| |       +--ro ls-type?          ipi-ospfv3-types:ospfv3_ls_type_t
| |       +--ro ls-id?           string
| |       +--ro ls-sequence-number? string
| |       +--ro ls-checksum?      string
| |       +--ro ls-length?        uint16
| +--ro route* [prefix]
| | +--ro prefix -> ../state/prefix
| | +--ro next-hop* [address]
| | | +--ro address -> ../state/address
| | | +--ro state
| | |   +--ro address?      inet:ip-address
| | |   +--ro interface-name? string
| | |   +--ro transit-area? empty
| | |   +--ro area-id?      inet:ipv4-address

```

```

| | | +--ro connected?      empty
| | | +--ro invalid?        empty
| | | +--ro code?           string
| | +--ro state
| | | +--ro prefix?         cml-data-types:cml_ip_prefix_t
| | | +--ro distance?      uint8
| | +--ro route-path
| |   +--ro state
| |     +--ro type?         ipi-ospfv3-types:ospfv3_path_type_t
| |     +--ro code?         string
| |     +--ro discard-connection? empty
| |     +--ro cost?         uint32
| |     +--ro type-2-cost?   uint32
| |     +--ro path-flags?   ipi-ospfv3-types:ospfv3_path_flags_t
| +--rw administrative-distance
| | +--rw config
| | | +--rw default-distance? uint8
| | | +--ro state
| | | +--ro default-distance? uint8
| | +--rw ospf
| |   +--rw config
| |     | +--rw intra-area-distance? uint8
| |     | +--rw inter-area-distance? uint8
| |     | +--rw external-routes-distance? uint8
| |     +--ro state
| |       +--ro intra-area-distance? uint8
| |       +--ro inter-area-distance? uint8
| |       +--ro external-routes-distance? uint8
| +--rw capability
| | +--rw config
| | | +--rw traffic-engineering? empty {feature-list:HAVE_OSPF6_TE}?
| | | +--rw disable-graceful-restart? empty {feature-list:HAVE_RESTART}?
| | +--ro state
| |   +--ro traffic-engineering? empty {feature-list:HAVE_OSPF6_TE}?
| |   +--ro disable-graceful-restart? empty {feature-list:HAVE_RESTART}?
| +--rw timers

```

```

| | +--rw spf
| |   +--rw config!
| |     | +--rw exponential-min-delay  uint32
| |     | +--rw exponential-max-delay  uint32
| |     +--ro state
| |       +--ro exponential-min-delay  uint32
| |       +--ro exponential-max-delay  uint32
| +--rw ospfv3-srv6 {feature-list:HAVE_SRV6}?
| | +--rw config!
| |   | +--rw ospf6SRv6enable  empty
| |   +--ro state
| |     | +--ro ospf6SRv6enable  empty
| |   +--rw locator-lists
| |     +--rw locator-list* [ospf6SRv6LocatorName]
| |       +--rw ospf6SRv6LocatorName  -> ../config/ospf6SRv6LocatorName
| |       +--rw config
| |         | +--rw ospf6SRv6LocatorName?  string
| |         +--ro state
| |           +--ro ospf6SRv6LocatorName?  string
| +--rw passive-interfaces
| | +--rw config
| |   | +--rw all-interfaces?  empty
| |   +--ro state
| |     | +--ro all-interfaces?  empty
| |   +--rw passive-interface* [name]
| |     +--rw name  -> ../config/name
| |     +--rw config
| |       | +--rw name?  string
| |       | +--rw passive-mode  ipi-ospfv3-types:ospfv3_passive_mode_t
| |       +--ro state
| |         +--ro name?  string
| |         +--ro passive-mode  ipi-ospfv3-types:ospfv3_passive_mode_t
| +--rw summary-addresses
| | +--rw summary-address* [address]
| |   +--rw address  -> ../config/address
| |   +--rw config

```

```

| | | +--rw address?      cml-data-types:cml_ipv6_prefix_t
| | | +--rw not-advertise? empty
| | | +--rw translate-tag? uint32
| | | +--rw all-tag?      uint32
| | +--ro state
| |   +--ro address?      cml-data-types:cml_ipv6_prefix_t
| |   +--ro not-advertise? empty
| |   +--ro translate-tag? uint32
| |   +--ro all-tag?      uint32
| +--rw default-information
| | +--rw config
| | | +--rw originate?      empty
| | | +--rw always-advertise-default-route? empty
| | | +--rw metric?         uint32
| | | +--rw metric-type?    ipi-ospfv3-types:ospfv3_metric_type_t
| | | +--rw route-map?      string
| | +--ro state
| |   +--ro originate?      empty
| |   +--ro always-advertise-default-route? empty
| |   +--ro metric?         uint32
| |   +--ro metric-type?    ipi-ospfv3-types:ospfv3_metric_type_t
| |   +--ro route-map?      string
| +--rw distribute-list {feature-list:HAVE_ACL}?
| | +--rw filter-in
| | | +--rw config
| | | | +--rw access-control-list? string
| | | +--ro state
| | |   +--ro access-control-list? string
| | +--rw filter-out
| |   +--rw routing-protocols
| | | +--rw routing-protocol* [protocol]
| | |   +--rw protocol -> ../config/protocol
| | |   +--rw config
| | | | +--rw protocol?      ipi-ospfv3-types:ospfv3_route_source_type_t
| | | | +--rw access-control-list string
| | | +--ro state

```

```

| | | +--ro protocol?      ipi-ospfv3-types:ospfv3_route_source_type_t
| | | +--ro access-control-list  string
| | +--rw ospf-processes
| |   +--rw ospf-process* [ospf-process-id]
| |     +--rw ospf-process-id  -> ../config/ospf-process-id
| |     +--rw config
| |       | +--rw ospf-process-id?  ipi-ospfv3-types:ospfv3_string_t
| |       | +--rw access-control-list  string
| |       +--ro state
| |         +--ro ospf-process-id?  ipi-ospfv3-types:ospfv3_string_t
| |         +--ro access-control-list  string
| +--rw redistribute
| | +--rw routing-protocols
| | | +--rw routing-protocol* [protocol]
| | |   +--rw protocol  -> ../config/protocol
| | |   +--rw config
| | |     | +--rw protocol?  ipi-ospfv3-types:ospfv3_route_source_type_t
| | |     | +--rw metric?    uint32
| | |     | +--rw metric-type? ipi-ospfv3-types:ospfv3_metric_type_t
| | |     | +--rw route-map?  string
| | |     | +--rw route-tag?  uint32
| | |     +--ro state
| | |       +--ro protocol?  ipi-ospfv3-types:ospfv3_route_source_type_t
| | |       +--ro metric?    uint32
| | |       +--ro metric-type? ipi-ospfv3-types:ospfv3_metric_type_t
| | |       +--ro route-map?  string
| | |       +--ro route-tag?  uint32
| | +--rw ospf-processes
| |   +--rw ospf-process* [ospf-process-id]
| |     +--rw ospf-process-id  -> ../config/ospf-process-id
| |     +--rw config
| |       | +--rw ospf-process-id? ipi-ospfv3-types:ospfv3_string_t
| |       | +--rw metric?          uint32
| |       | +--rw metric-type?     ipi-ospfv3-types:ospfv3_metric_type_t
| |       | +--rw route-map?       string
| |       | +--rw route-tag?       uint32

```

```

| |   +--ro state
| |   +--ro ospf-process-id? ipi-ospfv3-types:ospfv3_string_t
| |   +--ro metric?         uint32
| |   +--ro metric-type?    ipi-ospfv3-types:ospfv3_metric_type_t
| |   +--ro route-map?      string
| |   +--ro route-tag?      uint32
| +--rw areas
| | +--rw area* [area-id]
| |   +--rw area-id        -> ../config/area-id
| |   +--rw config
| |     | +--rw area-id?    ipi-ospfv3-types:ospfv3_area_t
| |     | +--rw default-cost? uint32
| |     +--ro state
| |       | +--ro area-id?    ipi-ospfv3-types:ospfv3_area_t
| |       | +--ro default-cost? uint32
| |     +--rw stub
| |       | +--rw config!
| |       | | +--rw enable    empty
| |       | | +--rw no-summary? empty
| |       | +--ro state
| |       |   +--ro enable    empty
| |       |   +--ro no-summary? empty
| |     +--rw nssa {feature-list:HAVE_NSSA}?
| |       | +--rw config!
| |       | | +--rw enable          empty
| |       | | +--rw no-summary?      empty
| |       | | +--rw stability-interval? uint32
| |       | | +--rw translator-role?  ipi-ospfv3-types:ospfv3_translator_role_t
| |       | | +--rw no-redistribution? empty
| |       | | +--rw default-information-originate? empty
| |       | | +--rw metric?          uint32
| |       | | +--rw metric-type?      ipi-ospfv3-types:ospfv3_metric_type_t
| |       | | +--rw route-map?        string
| |       +--ro state
| |         +--ro enable          empty
| |         +--ro no-summary?      empty

```

```

| | | +--ro stability-interval?      uint32
| | | +--ro translator-role?        ipi-ospfv3-types:ospfv3_translator_role_t
| | | +--ro no-redistribution?      empty
| | | +--ro default-information-originate? empty
| | | +--ro metric?                uint32
| | | +--ro metric-type?           ipi-ospfv3-types:ospfv3_metric_type_t
| | | +--ro route-map?             string
| | +--rw virtual-links
| | | +--rw virtual-link* [remote-router-id]
| | | +--rw remote-router-id  -> ../config/remote-router-id
| | | +--rw config
| | | | +--rw remote-router-id?      inet:ipv4-address
| | | | +--rw bfd-fall-over?        empty {feature-list:HAVE_BFD}?
| | | | +--rw instance-id?         uint8
| | | | +--rw authentication-cryptomap? -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
| | | +--ro state
| | | | +--ro remote-router-id?      inet:ipv4-address
| | | | +--ro bfd-fall-over?        empty {feature-list:HAVE_BFD}?
| | | | +--ro instance-id?         uint8
| | | | +--ro authentication-cryptomap? -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name
{feature-list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
| | | | +--ro name?                string
| | | | +--ro status?              ipi-ospfv3-types:ospfv3_link_status_t
| | | | +--ro interface-name?      string
| | | | +--ro virtual-link-interface-state? string
| | | | +--ro local-address?       inet:ipv4-address
| | | | +--ro remote-address?      inet:ipv4-address
| | | | +--ro virtual-link-instance-id? uint32
| | | | +--ro hello-suppression-enable? empty
| | | | +--ro do-not-age-lsa-enable? empty
| | | | +--ro hello-due-in?        yang:date-and-time
| | | | +--ro adjacency-state?     string
| | | | +--ro virtual-link-config-error
| | | | | +--ro router-id?   inet:ipv4-address
| | | | | +--ro instance-id? uint8
| | | | | +--ro error-type?  ipi-ospfv3-types:ospfv3_config_error_type_t

```

```

| | | | | +--ro packet-type? ipi-ospfv3-types:ospfv3_packet_type_t
| | | | | +--ro virtual-link-state-change
| | | | | +--ro router-id?      inet:ipv4-address
| | | | | +--ro instance-id?    uint8
| | | | | +--ro virtual-link-state? ipi-ospfv3-types:ospfv3_interface_state_t
| | | | | +--ro virtual-link-neighbor-state-change
| | | | | +--ro router-id?      inet:ipv4-address
| | | | | +--ro instance-id?    uint8
| | | | | +--ro neighbor-state? ipi-ospfv3-types:ospfv3_interface_state_t
| | | | | +--ro virtual-link-tx-retransmit
| | | | | +--ro router-id?      inet:ipv4-address
| | | | | +--ro instance-id?    uint8
| | | | | +--ro packet-type?    ipi-ospfv3-types:ospfv3_packet_type_t
| | | | | +--ro lsdb-type?      uint32
| | | | | +--ro lsdb-ls-id?     uint32
| | | | | +--ro lsdb-router-id? inet:ipv4-address
| | | | | +--ro virtual-link-rx-bad-packet
| | | | |   +--ro router-id?    inet:ipv4-address
| | | | |   +--ro instance-id?  uint8
| | | | |   +--ro packet-type?  ipi-ospfv3-types:ospfv3_packet_type_t
| | | | +--rw timers
| | | |   +--rw config
| | | |     +--rw dead-interval?    uint16
| | | |     +--rw hello-interval?   uint16
| | | |     +--rw transmission-delay? uint16
| | | |     +--rw retransmission-interval? uint16
| | | |   +--ro state
| | | |     +--ro dead-interval?    uint16
| | | |     +--ro hello-interval?   uint16
| | | |     +--ro transmission-delay? uint16
| | | |     +--ro retransmission-interval? uint16
| | +--rw address-ranges
| |   +--rw address-range* [address]
| |     +--rw address -> ../config/address
| |     +--rw config
| |       +--rw address?    cml-data-types:cml_ipv6_prefix_t

```

```

| | | | +--rw not-advertise? empty
| | | +--ro state
| | | | +--ro address? cml-data-types:cml_ipv6_prefix_t
| | | | +--ro not-advertise? empty
| | +--ro area-info* [area-id]
| | | +--ro area-id -> ../state/area-id
| | | +--ro state
| | | | +--ro statistics
| | | | | +--ro active-interface-count? yang:counter64
| | | | | +--ro interface-count? yang:counter64
| | | | | +--ro spf-algorithm-executed-count? yang:counter64
| | | | | +--ro lsa-count? yang:counter64
| | | | | +--ro lsa-checksum? string
| | | | | +--ro unknown-lsa-count? yang:counter64
| | | | +--ro area-id? inet:ipv4-address
| | | | +--ro interface-name* string
| | | | +--ro backbone? empty
| | | | +--ro active? empty
| | | | +--ro asbr? empty
| | | +--ro vertex* [router-id]
| | | | +--ro router-id -> ../state/router-id
| | | | +--ro next-hop* [address]
| | | | | +--ro address -> ../state/address
| | | | | +--ro state
| | | | | | +--ro address? inet:ip-address
| | | | | | +--ro interface-name? string
| | | | | | +--ro transit-area? empty
| | | | | | +--ro area-id? inet:ipv4-address
| | | | | | +--ro connected? empty
| | | | | | +--ro invalid? empty
| | | | | | +--ro code? string
| | | | +--ro state
| | | | | +--ro router-id? inet:ipv4-address
| | | | | +--ro distance? uint8
| | +--rw address-family
| | | +--rw ipv4

```

```

| | +--rw config
| | | +--rw enable-af? empty
| | +--ro state
| | | +--ro enable-af? empty
| | +--rw areas
| | | +--rw area* [area-id]
| | |   +--rw area-id      -> ../config/area-id
| | |   +--rw config
| | |   | +--rw area-id? ipi-ospfv3-types:ospfv3_area_t
| | |   +--ro state
| | |   | +--ro area-id? ipi-ospfv3-types:ospfv3_area_t
| | |   +--rw address-ranges
| | |     +--rw address-range* [address]
| | |       +--rw address  -> ../config/address
| | |       +--rw config
| | |       | +--rw address?    cml-data-types:cml_ipv4_addr_prefix_t
| | |       | +--rw not-advertise? empty
| | |       +--ro state
| | |         +--ro address?    cml-data-types:cml_ipv4_addr_prefix_t
| | |         +--ro not-advertise? empty
| | +--rw summary-addresses
| | | +--rw summary-address* [address]
| | |   +--rw address  -> ../config/address
| | |   +--rw config
| | |   | +--rw address?    cml-data-types:cml_ipv4_prefix_t
| | |   | +--rw not-advertise? empty
| | |   | +--rw tag?        uint32
| | |   +--ro state
| | |     +--ro address?    cml-data-types:cml_ipv4_prefix_t
| | |     +--ro not-advertise? empty
| | |     +--ro tag?        uint32
| | +--rw default-information
| | | +--rw config
| | | | +--rw originate?          empty
| | | | +--rw always-advertise-default-route? empty
| | | | +--rw metric?            uint32

```

```

| | | | +--rw metric-type?          ipi-ospfv3-types:ospfv3_metric_type_t
| | | | +--rw route-map?           string
| | | | +--ro state
| | | |   +--ro originate?          empty
| | | |   +--ro always-advertise-default-route? empty
| | | |   +--ro metric?            uint32
| | | |   +--ro metric-type?       ipi-ospfv3-types:ospfv3_metric_type_t
| | | |   +--ro route-map?         string
| | | +--rw redistribute
| | |   +--rw routing-protocols
| | |     +--rw routing-protocol* [protocol-af]
| | |       +--rw protocol-af  -> ../config/protocol-af
| | |       +--rw config
| | |         +--rw protocol-af? ipi-ospfv3-types:ospfv3_af_route_source_type_t
| | |         +--rw metric?      uint32
| | |         +--rw metric-type? ipi-ospfv3-types:ospfv3_metric_type_t
| | |         +--rw route-map?   string
| | |         +--rw route-tag?   uint32
| | |         +--ro state
| | |           +--ro protocol-af? ipi-ospfv3-types:ospfv3_af_route_source_type_t
| | |           +--ro metric?      uint32
| | |           +--ro metric-type? ipi-ospfv3-types:ospfv3_metric_type_t
| | |           +--ro route-map?   string
| | |           +--ro route-tag?   uint32
| | | +--rw ospf-processes
| | |   +--rw ospf-process* [ospfv2-process-id]
| | |     +--rw ospfv2-process-id -> ../config/ospfv2-process-id
| | |     +--rw config
| | |       +--rw ospfv2-process-id? uint16
| | |       +--rw metric?            uint32
| | |       +--rw metric-type?       ipi-ospfv3-types:ospfv3_metric_type_t
| | |       +--rw route-map?         string
| | |       +--rw route-tag?         uint32
| | |       +--ro state
| | |         +--ro ospfv2-process-id? uint16
| | |         +--ro metric?           uint32

```

```

| |      +--ro metric-type?      ipi-ospfv3-types:ospfv3_metric_type_t
| |      +--ro route-map?        string
| |      +--ro route-tag?        uint32
| +--ro originate-lsa
| |      +--ro router-id?        -> /ospfv3/processes/process/state/router-id
| |      +--ro lsdb-area-id?     inet:ipv4-address
| |      +--ro lsdb-type?        uint32
| |      +--ro lsdb-id?          uint32
| |      +--ro lsdb-router-id?   inet:ipv4-address
| +--ro tx-retransmit
| |      +--ro router-id?        inet:ipv4-address
| |      +--ro if-index?         int32
| |      +--ro instance-id?      uint8
| |      +--ro neighbor-router-id? inet:ipv4-address
| |      +--ro packet-type?      ipi-ospfv3-types:ospfv3_packet_type_t
| |      +--ro lsdb-type?        uint32
| |      +--ro lsdb-lsid?        uint32
| |      +--ro lsdb-router-id?   inet:ipv4-address
| +--ro neighbor-state-change
| |      +--ro router-id?        inet:ipv4-address
| |      +--ro if-index?         int32
| |      +--ro instance-id?      uint8
| |      +--ro neighbor-router-id? inet:ipv4-address
| |      +--ro neighbor-state?   ipi-ospfv3-types:ospfv3_neighbor_state_change_t
| +--rw bgp-link-state {feature-list:HAVE_BGP_LS}?
|   +--rw distribute
|     +--rw config
|       | +--rw enabled?        empty
|       | +--rw throttle-timer? uint8
|       +--ro state
|         +--ro enabled?        empty
|         +--ro throttle-timer? uint8
+--rw debug
| +--rw config
| | +--rw bfd?                  empty {feature-list:HAVE_BFD}?
| | +--rw retransmission?      empty

```

```

| | +--rw dist-ls?      empty {feature-list:HAVE_BGP_LS}?
| | +--rw events?      ipi-ospfv3-types:ospfv3_debug_event_t
| | +--rw ifsm?        ipi-ospfv3-types:ospfv3_debug_ifsm_t
| | +--rw lsa?         ipi-ospfv3-types:ospfv3_debug_lsa_t
| | +--rw nfsm?        ipi-ospfv3-types:ospfv3_debug_nfsm_t
| | +--rw nsm?         ipi-ospfv3-types:ospfv3_debug_nsm_t
| | +--rw rib?         ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
| | +--rw route?       ipi-ospfv3-types:ospfv3_debug_route_t
| | +--rw packet-hello? ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-dd?    ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-request? ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-update? ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-ack? ipi-ospfv3-types:ospfv3_debug_packet_options_t
| +--ro state
|   +--ro bfd?          empty {feature-list:HAVE_BFD}?
|   +--ro retransmission? empty
|   +--ro dist-ls?      empty {feature-list:HAVE_BGP_LS}?
|   +--ro events?      ipi-ospfv3-types:ospfv3_debug_event_t
|   +--ro ifsm?        ipi-ospfv3-types:ospfv3_debug_ifsm_t
|   +--ro lsa?         ipi-ospfv3-types:ospfv3_debug_lsa_t
|   +--ro nfsm?        ipi-ospfv3-types:ospfv3_debug_nfsm_t
|   +--ro nsm?         ipi-ospfv3-types:ospfv3_debug_nsm_t
|   +--ro rib?         ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
|   +--ro route?       ipi-ospfv3-types:ospfv3_debug_route_t
|   +--ro packet-hello? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-dd?    ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-request? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-update? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-ack? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro terminal-debug-status
|     +--ro bfd?        cml-data-types:cml_on_off_t {feature-list:HAVE_BFD}?
|     +--ro retransmission? cml-data-types:cml_on_off_t
|     +--ro dist-ls?     empty {feature-list:HAVE_BGP_LS}?
|     +--ro events?     ipi-ospfv3-types:ospfv3_debug_event_t
|     +--ro ifsm?       ipi-ospfv3-types:ospfv3_debug_ifsm_t
|     +--ro lsa?        ipi-ospfv3-types:ospfv3_debug_lsa_t

```

```

|   +--ro nfsm?          ipi-ospfv3-types:ospfv3_debug_nfsm_t
|   +--ro nsm?           ipi-ospfv3-types:ospfv3_debug_nsm_t
|   +--ro rib?           ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
|   +--ro route?         ipi-ospfv3-types:ospfv3_debug_route_t
|   +--ro packet-hello?   ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-dd?      ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-request? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-update? ipi-ospfv3-types:ospfv3_debug_packet_options_t
|   +--ro packet-ls-ack?   ipi-ospfv3-types:ospfv3_debug_packet_options_t
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name  -> ../config/interface-name
    +--rw config
      | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
      | +--rw shutdown?      empty
      +--ro state
        | +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
        | +--ro shutdown?            empty
        | +--ro interface-config-error
        | | +--ro router-id?          inet:ipv4-address
        | | +--ro interface-index?    uint32
        | | +--ro interface-instance-id? uint8
        | | +--ro error-type?         ipi-ospfv3-types:ospfv3_config_error_type_t
        | | +--ro packet-type?        ipi-ospfv3-types:ospfv3_packet_type_t
        | +--ro interface-state-change
        | | +--ro router-id?          inet:ipv4-address
        | | +--ro interface-index?    uint32
        | | +--ro interface-instance-id? uint8
        | | +--ro interface-state?    ipi-ospfv3-types:ospfv3_interface_state_t
        +--ro interface-rx-bad-packet
          | +--ro router-id?          inet:ipv4-address
          | +--ro interface-index?    uint32
          | +--ro interface-instance-id? uint8
          | +--ro packet-src?         inet:ipv6-address
          | +--ro packet-type?        ipi-ospfv3-types:ospfv3_packet_type_t
        +--rw instances

```

```

+--rw instance* [instance-id]
  +--rw instance-id      -> ../config/instance-id
  +--rw config
    | +--rw instance-id?      uint8
    | +--rw network-type?     ipi-ospfv3-types:ospfv3_network_type_t
    | +--rw cost?             uint16
    | +--rw priority?         uint8
    | +--rw traffic-engineering-metric?  uint16 {feature-list:HAVE_OSPF6_TE}?
    | +--rw mtu?              uint16
    | +--rw mtu-ignore?       empty
    | +--rw enable-link-lsa-suppression? empty
    | +--rw enable-bfd?       boolean {feature-list:HAVE_BFD}?
    | +--rw authentication-cryptomap?   -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
    +--ro state
      | +--ro statistics
      | | +--ro neighbor-count?      uint32
      | | +--ro adjacent-neighbor-count?  uint32
      | | +--ro hello-due-in?        string
      | | +--ro hello-in?            yang:counter64
      | | +--ro hello-out?           yang:counter64
      | | +--ro database-description-in? yang:counter64
      | | +--ro database-description-out? yang:counter64
      | | +--ro ls-request-in?        yang:counter64
      | | +--ro ls-request-out?       yang:counter64
      | | +--ro ls-update-in?         yang:counter64
      | | +--ro ls-update-out?        yang:counter64
      | | +--ro ls-ack-in?            yang:counter64
      | | +--ro ls-ack-out?           yang:counter64
      | | +--ro ls-ack-discarded?     yang:counter64
      | +--ro instance-id?           uint8
      | +--ro network-type?          ipi-ospfv3-types:ospfv3_network_type_t
      | +--ro cost?                   uint16
      | +--ro priority?               uint8
      | +--ro traffic-engineering-metric?  uint16 {feature-list:HAVE_OSPF6_TE}?
      | +--ro mtu?                     uint16
      | +--ro mtu-ignore?             empty

```

```

| +--ro enable-link-lsa-suppression? empty
| +--ro enable-bfd? boolean {feature-list:HAVE_BFD}?
| +--ro authentication-cryptomap? -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
| +--ro administrative-state? ipi-ospfv3-types:ospfv3_interface_admin_state_t
| +--ro interface-index? uint32
| +--ro interface-state? ipi-ospfv3-types:ospfv3_interface_state_t
| +--ro address? inet:ipv6-address
| +--ro link-local-address? inet:ipv6-address
| +--ro router-id? inet:ipv4-address
+--rw routers
| +--rw router* [ospfv3-id area-id]
|   +--rw ospfv3-id -> ../config/ospfv3-id
|   +--rw area-id -> ../config/area-id
|   +--rw config
|     | +--rw ospfv3-id? ipi-ospfv3-types:ospfv3_string_t
|     | +--rw area-id? ipi-ospfv3-types:ospfv3_area_t
|     +--ro state
|       +--ro ospfv3-id? ipi-ospfv3-types:ospfv3_string_t
|       +--ro area-id? ipi-ospfv3-types:ospfv3_area_t
+--rw timers
| +--rw config
| | +--rw dead-interval? uint16
| | +--rw hello-interval? uint16
| | +--rw transmission-delay? uint16
| | +--rw retransmission-interval? uint16
| +--ro state
|   +--ro dead-interval? uint16
|   +--ro hello-interval? uint16
|   +--ro transmission-delay? uint16
|   +--ro retransmission-interval? uint16
+--rw neighbors-static
| +--rw neighbor-static* [address]
|   +--rw address -> ../config/address
|   +--rw config
|     | +--rw address? inet:ipv6-address
|     | +--rw cost? uint16

```

```

| | +--rw priority?      uint8
| | +--rw poll-interval? uint32
| +--ro state
|   +--ro address?      inet:ipv6-address
|   +--ro cost?         uint16
|   +--ro priority?     uint8
|   +--ro poll-interval? uint32
|   +--ro interface-state? string
+--ro designated-router
| +--ro state
|   +--ro router-id?   inet:ipv4-address
|   +--ro address?    inet:ipv6-address
+--ro backup-designated-router
| +--ro state
|   +--ro router-id?   inet:ipv4-address
|   +--ro address?    inet:ipv6-address
+--ro neighbor* [router-id]
  +--ro router-id  -> ../state/router-id
  +--ro state
  | +--ro statistics
  | | +--ro dead-timer-due-in?   string
  | | +--ro timer-dump?         string
  | | +--ro state-changes?      yang:counter64
  | | +--ro database-summary-count? yang:counter64
  | | +--ro ls-request-count?   yang:counter64
  | | +--ro ls-retransmission-count? yang:counter64
  | +--ro router-id?           inet:ipv4-address
  | +--ro address?             inet:ipv6-address
  | +--ro area-id?             inet:ipv4-address
  | +--ro state?               string
  | +--ro state-message?       cml-data-types:cml_line_t
  | +--ro bfd-enable?          empty {feature-list:HAVE_BFD}?
  | +--ro priority?            uint8
  | +--ro neighbor-options?    ipi-ospfv3-types:ospfv3_ls_options_t
  | +--ro designated-router-router-id?   inet:ipv4-address
  | +--ro backup-designated-router-router-id? inet:ipv4-address

```

```

+--ro route* [prefix]
  +--ro prefix      -> ../state/prefix
  +--ro next-hop* [address]
    | +--ro address  -> ../state/address
    | +--ro state
    |   +--ro address?      inet:ip-address
    |   +--ro interface-name? string
    |   +--ro transit-area? empty
    |   +--ro area-id?      inet:ipv4-address
    |   +--ro connected?    empty
    |   +--ro invalid?      empty
    |   +--ro code?         string
    +--ro state
      +--ro prefix?  cml-data-types:cml_ip_prefix_t
      +--ro distance? uint8
  +--ro route-path
    +--ro state
      +--ro type?          ipi-ospfv3-types:ospfv3_path_type_t
      +--ro code?          string
      +--ro discard-connection? empty
      +--ro cost?          uint32
      +--ro type-2-cost?    uint32
      +--ro path-flags?    ipi-ospfv3-types:ospfv3_path_flags_t

```

rpcs:

```

+---x ospfv3-terminal-debug-ospf-all-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
+---x ospfv3-terminal-debug-ospf-all-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
+---x ospfv3-terminal-debug-bfd-on {feature-list:HAVE_BFD}?
+---x ospfv3-terminal-debug-bfd-off {feature-list:HAVE_BFD}?
+---x ospfv3-terminal-debug-retransmission-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
+---x ospfv3-terminal-debug-retransmission-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
+---x ospfv3-terminal-debug-dist-ls-on {feature-list:HAVE_BGP_LS}?
+---x ospfv3-terminal-debug-dist-ls-off {feature-list:HAVE_BGP_LS}?
+---x ospfv3-terminal-debug-events-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w events  ipi-ospfv3-types:ospfv3_debug_event_t

```



```

+---x ospfv3-terminal-debug-events-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w events   ipi-ospfv3-types:ospfv3_debug_event_t
+---x ospfv3-terminal-debug-ifs-m-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ifs-m   ipi-ospfv3-types:ospfv3_debug_ifs-m_t
+---x ospfv3-terminal-debug-ifs-m-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ifs-m   ipi-ospfv3-types:ospfv3_debug_ifs-m_t
+---x ospfv3-terminal-debug-lsa-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w lsa     ipi-ospfv3-types:ospfv3_debug_lsa_t
+---x ospfv3-terminal-debug-lsa-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w lsa     ipi-ospfv3-types:ospfv3_debug_lsa_t
+---x ospfv3-terminal-debug-nfs-m-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w nfs-m   ipi-ospfv3-types:ospfv3_debug_nfs-m_t
+---x ospfv3-terminal-debug-nfs-m-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w nfs-m   ipi-ospfv3-types:ospfv3_debug_nfs-m_t
+---x ospfv3-terminal-debug-nsm-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w nsm     ipi-ospfv3-types:ospfv3_debug_nsm_t
+---x ospfv3-terminal-debug-nsm-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w nsm     ipi-ospfv3-types:ospfv3_debug_nsm_t
+---x ospfv3-terminal-debug-packet-all-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w all     ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-all-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w all     ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-hello-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w hello   ipi-ospfv3-types:ospfv3_debug_packet_options_t

```

```
+---x ospfv3-terminal-debug-packet-hello-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w hello   ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-dd-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w dd      ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-dd-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w dd      ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-request-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-request   ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-request-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-request   ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-update-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-update    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-update-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-update    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-ack-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-ack       ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-ack-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w ls-ack       ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-rib-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w rib          ipi-ospfv3-types:ospfv3_debug_rib_t
+---x ospfv3-terminal-debug-rib-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w rib          ipi-ospfv3-types:ospfv3_debug_rib_t
+---x ospfv3-terminal-debug-route-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w route        ipi-ospfv3-types:ospfv3_debug_route_t
```

```
+---x ospfv3-terminal-debug-route-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w route   ipi-ospfv3-types:ospfv3_debug_route_t
+---x ospfv3-clear-process {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w process-id  string
+---x ospfv3-clear-process-all {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
+---x ospfv3-graceful-restart {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|   +---w grace-period  uint16
+---x ospfv3-snmp-restart {feature-list:HAVE_SNMP}?
```

notifications:

```
+---n ospfv3-originate-lsa
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro ospfv3-id?     ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?     inet:ipv4-address
| +--ro lsdb-area-id?  inet:ipv4-address
| +--ro lsdb-type?     uint32
| +--ro lsdb-id?       uint32
| +--ro lsdb-router-id? inet:ipv4-address
+---n ospfv3-tx-retransmit
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro ospfv3-id?     ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?     inet:ipv4-address
| +--ro if-index?      int32
| +--ro instance-id?   uint8
| +--ro neighbor-router-id? inet:ipv4-address
| +--ro packet-type?   ipi-ospfv3-types:ospfv3_packet_type_t
| +--ro lsdb-type?     uint32
| +--ro lsdb-lsid?     uint32
| +--ro lsdb-router-id? inet:ipv4-address
+---n ospfv3-neighbor-state-change
| +--ro severity?      cml-data-types:cml_notif_severity_t
```

```
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro ospfv3-id?       ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?       inet:ipv4-address
| +--ro if-index?        int32
| +--ro instance-id?     uint8
| +--ro neighbor-router-id? inet:ipv4-address
| +--ro neighbor-state?   ipi-ospfv3-types:ospfv3_neighbor_state_change_t
+---n ospfv3-virtual-link-config-error
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?         ipi-ospfv3-types:ospfv3_area_t
| +--ro ospfv3-id?       ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?       inet:ipv4-address
| +--ro instance-id?     uint8
| +--ro error-type?       ipi-ospfv3-types:ospfv3_config_error_type_t
| +--ro packet-type?      ipi-ospfv3-types:ospfv3_packet_type_t
+---n ospfv3-virtual-link-state-change
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?         ipi-ospfv3-types:ospfv3_area_t
| +--ro ospfv3-id?       ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?       inet:ipv4-address
| +--ro instance-id?     uint8
| +--ro virtual-link-state? ipi-ospfv3-types:ospfv3_interface_state_t
+---n ospfv3-virtual-link-neighbor-state-change
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro remote-router-id? inet:ipv4-address
| +--ro area-id?         ipi-ospfv3-types:ospfv3_area_t
| +--ro ospfv3-id?       ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?       inet:ipv4-address
| +--ro instance-id?     uint8
| +--ro neighbor-state?   ipi-ospfv3-types:ospfv3_interface_state_t
+---n ospfv3-virtual-link-rx-bad-packet
```

```

| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-router-id?  inet:ipv4-address
| +--ro area-id?       ipi-ospfv3-types:ospfv3_area_t
| +--ro ospfv3-id?     ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?     inet:ipv4-address
| +--ro instance-id?   uint8
| +--ro packet-type?   ipi-ospfv3-types:ospfv3_packet_type_t
+---n ospfv3-virtual-link-tx-retransmit
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro remote-router-id?  inet:ipv4-address
| +--ro area-id?       ipi-ospfv3-types:ospfv3_area_t
| +--ro ospfv3-id?     ipi-ospfv3-types:ospfv3_string_t
| +--ro router-id?     inet:ipv4-address
| +--ro instance-id?   uint8
| +--ro packet-type?   ipi-ospfv3-types:ospfv3_packet_type_t
| +--ro lsdb-type?     uint32
| +--ro lsdb-lsid?     uint32
| +--ro lsdb-router-id?  inet:ipv4-address
+---n ospfv3-interface-config-error
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro interface-name?  string
| +--ro router-id?      inet:ipv4-address
| +--ro interface-index?  uint32
| +--ro interface-instance-id?  uint8
| +--ro error-type?     ipi-ospfv3-types:ospfv3_config_error_type_t
| +--ro packet-type?    ipi-ospfv3-types:ospfv3_packet_type_t
+---n ospfv3-interface-state-change
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro interface-name?  string
| +--ro router-id?      inet:ipv4-address
| +--ro interface-index?  uint32
| +--ro interface-instance-id?  uint8

```

```

| +--ro interface-state?      ipi-ospfv3-types:ospfv3_interface_state_t
+---n ospfv3-interface-rx-bad-packet
  +--ro severity?            cml-data-types:cml_notif_severity_t
  +--ro eventClass?          cml-data-types:cml_notif_class_t
  +--ro interface-name?      string
  +--ro router-id?           inet:ipv4-address
  +--ro interface-index?     uint32
  +--ro interface-instance-id? uint8
  +--ro packet-src?          inet:ipv6-address
  +--ro packet-type?         ipi-ospfv3-types:ospfv3_packet_type_t

```

ipi-pbr

```

+--rw pbr
  +--rw config
    | +--rw enabled? empty
    +--ro state
      | +--ro enabled? empty
    +--rw interfaces
      +--rw interface* [name]
        +--rw name -> ../config/name
        +--rw config
          | +--rw name? -> /ipi-interface:interfaces/interface/name
          | +--rw route-map-name? -> /ipi-routemap:routemaps/routemap/routemap-name
          | +--rw route-map-v6-name? -> /ipi-routemap:routemaps/routemap/routemap-name {feature-list:HAVE_IPV6}?
          +--ro state
            +--ro name? -> /ipi-interface:interfaces/interface/name
            +--ro route-map-name? -> /ipi-routemap:routemaps/routemap/routemap-name
            +--ro route-map-v6-name? -> /ipi-routemap:routemaps/routemap/routemap-name {feature-list:HAVE_IPV6}?

```

rpcs:

```

+---x clear-route-map-pbr-statistics {feature-list:HAVE_PBR}?
  +---w input
    +---w route-map-name string

```

ipi-pcep

```
+--rw pcep
  +--rw entities
    | +--rw entity* [entity-id]
    |   +--rw entity-id    -> ../config/entity-id
    |   +--rw config
    |     | +--rw entity-id?      uint32
    |     | +--rw keep-alive-interval?  uint8
    |     | +--rw dead-interval?    uint8
    |     | +--rw request-timeout?    uint16
    |     | +--rw tolerance-keepalive?  uint32
    |     | +--rw tolerance-dead-interval? uint32
    |     | +--rw cool-off-timeout?    int32
    |     | +--rw source-address?      inet:ip-address
    |     | +--rw recovery-policy?     ipi-pcep-types:pcep_dlg_recovery_type_t
    |     +--ro state
    |       | +--ro entity-id?      uint32
    |       | +--ro keep-alive-interval?  uint8
    |       | +--ro dead-interval?    uint8
    |       | +--ro request-timeout?    uint16
    |       | +--ro tolerance-keepalive?  uint32
    |       | +--ro tolerance-dead-interval? uint32
    |       | +--ro cool-off-timeout?    int32
    |       | +--ro source-address?      inet:ip-address
    |       | +--ro recovery-policy?     ipi-pcep-types:pcep_dlg_recovery_type_t
    |       | +--ro role?             ipi-pcep-types:pcep_role_t
    |       | +--ro connect-timer?      uint32
    |       | +--ro connect-max-retry?   uint32
    |       | +--ro init-backoff-timer?  uint32
    |       | +--ro max-backoff-timer?   uint32
    |       | +--ro open-wait-timer?     uint32
    |       | +--ro keep-wait-timer?     uint32
```

```

|   +--rw capability
|   |   +--rw config
|   |   |   +--rw segment-routing-v6?  empty {feature-list:HAVE_PCEP_SRV6}?
|   |   |   +--rw pce-instantiate?     empty
|   |   |   +--rw segment-routing?     empty {feature-list:HAVE_PCEP_SR}?
|   |   +--ro state
|   |       +--ro segment-routing-v6?  empty {feature-list:HAVE_PCEP_SRV6}?
|   |       +--ro pce-instantiate?     empty
|   |       +--ro segment-routing?     empty {feature-list:HAVE_PCEP_SR}?
|   +--rw stateful
|   |   +--rw config
|   |   |   +--rw redelegation-timeout?  uint32
|   |   |   +--rw lsp-state-timeout?     ipi-pcep-types:pcep_lsp_state_timeout_t
|   |   +--ro state
|   |       +--ro redelegation-timeout?  uint32
|   |       +--ro lsp-state-timeout?     ipi-pcep-types:pcep_lsp_state_timeout_t
|   +--rw flap-limit
|   |   +--rw config!
|   |   |   +--rw flap-count            int32
|   |   |   +--rw flap-interval         int32
|   |   +--ro state
|   |       +--ro flap-count            int32
|   |       +--ro flap-interval         int32
|   +--rw update-limit
|   |   +--rw config!
|   |   |   +--rw count                int32
|   |   |   +--rw interval             int32
|   |   +--ro state
|   |       +--ro count                int32
|   |       +--ro interval             int32
|   +--rw lsp-database
|   |   +--ro ingress-tunnel* [plsp-id]
|   |       +--ro plsp-id              -> ../state/plsp-id
|   |       +--ro lsp* [lsp-id]
|   |           +--ro lsp-id            -> ../state/lsp-id
|   |           +--ro state

```

```

| | | | +--ro lsp-id?          uint32
| | | | +--ro operational-state? ipi-pcep-types:pcep_lsp_oper_status_t
| | | | +--ro last-lsp-error?   ipi-pcep-types:pcep_lsp_error_t
| | | | +--ro binding-label-status
| | | |   +--ro state
| | | |     +--ro label-value?   uint32
| | | |     +--ro allocation-mode? ipi-pcep-types:pcep_binding_alloc_mode_t
| | | +--ro state
| | | | +--ro plsp-id?          uint32
| | | | +--ro tunnel-id?        uint32
| | | | +--ro candidate-path-id? uint32 {feature-list:HAVE_PCEP_SR}?
| | | | +--ro source?           inet:ipv4-address
| | | | +--ro destination?      inet:ipv4-address
| | | | +--ro extended-tunnel-id? inet:ipv4-address
| | | | +--ro admin-state?      boolean
| | | | +--ro symbolic-name?    string
| | | | +--ro tunnel-name?      string
| | | | +--ro setup-type?       ipi-pcep-types:pcep_lsp_setup_type_t
| | | | +--ro local-policy-active? empty
| | | | +--ro request-id?       uint32
| | | | +--ro request-state?     ipi-pcep-types:pcep_tunnel_request_state_t
| | | | +--ro request-flags?     ipi-pcep-types:pcep_tunnel_request_flags_t
| | | | +--ro error-flags?       ipi-pcep-types:pcep_tunnel_err_flags_t
| | | | +--ro recent-lsp-id?     uint32 {feature-list:HAVE_PCEP_RSVP}?
| | | | +--ro pending-updates?   empty
| | | | +--ro last-event?        ipi-pcep-types:pcep_tunnel_recent_event_t
| | | +--ro pce-delegation
| | | | +--ro state
| | | |   +--ro enabled?          empty
| | | |   +--ro address?          inet:ipv4-address
| | | |   +--ro stateful-request-parameter-id? uint32
| | | +--ro initiation
| | | | +--ro state
| | | |   +--ro enabled? empty
| | | |   +--ro address? inet:ipv4-address
| | +--rw peers

```

```
|  +--rw peer* [address]
|    +--rw address    -> ../config/address
|    +--rw config
|      | +--rw address?          ipi-pcep-types:pcep_ip_addr_t
|      | +--rw delegation-preference? uint32
|      | +--rw authentication-key?  string {feature-list:HAVE_TCP_MD5SIG}?
|      +--ro state
|        | +--ro address?          ipi-pcep-types:pcep_ip_addr_t
|        | +--ro delegation-preference? uint32
|        | +--ro authentication-key?  string {feature-list:HAVE_TCP_MD5SIG}?
|        | +--ro role?              ipi-pcep-types:pcep_role_t
|        | +--ro session-exists?      empty
|        | +--ro session-up-time?     yang:timestamp
|        | +--ro session-fail-time?   yang:timestamp
|        | +--ro counters
|        |   +--ro stateful
|        |     | +--ro tx-path-reports? yang:counter32
|        |     | +--ro tx-reports?     yang:counter32
|        |     | +--ro rx-path-updates? yang:counter32
|        |     | +--ro rx-updates?     yang:counter32
|        |     | +--ro rx-pc-initiate? yang:counter32
|        |     | +--ro rx-lsp-initiate? yang:counter32
|        |     +--ro session-setup-fail? yang:counter32
|        |     +--ro tx-open-message?   yang:counter32
|        |     +--ro tx-keep-alive?     yang:counter32
|        |     +--ro tx-pc-notifications? yang:counter32
|        |     +--ro tx-path-request-errors? yang:counter32
|        |     +--ro tx-path-request?   yang:counter32
|        |     +--ro tx-request?        yang:counter32
|        |     +--ro tx-request-for-pending-reply? yang:counter32
|        |     +--ro tx-request-for-error-received? yang:counter32
|        |     +--ro tx-request-for-nopath-receive? yang:counter32
|        |     +--ro tx-request-for-cancel-receive? yang:counter32
|        |     +--ro tx-request-for-ero-received? yang:counter32
|        |     +--ro tx-request-timed-out? yang:counter32
|        |     +--ro tx-request-sent-cancel-sent? yang:counter32
```

```

|   |   +--ro tx-request-sent-closed?      yang:counter32
|   |   +--ro rx-open-message?             yang:counter32
|   |   +--ro rx-keep-alive?               yang:counter32
|   |   +--ro rx-pc-notifications?         yang:counter32
|   |   +--ro rx-path-request-errors?      yang:counter32
|   |   +--ro rx-path-reply?               yang:counter32
|   |   +--ro rx-unknown?                  yang:counter32
|   |   +--ro rx-corrupt?                  yang:counter32
|   +--ro capability
|   |   +--ro state
|   |   +--ro pce-instantiate?  empty
|   |   +--ro segment-routing?  empty {feature-list:HAVE_PCEP_SR}?
|   |   +--ro lsp-update?      empty
|   +--ro session
|       +--ro state
|           +--ro initiator?          ipi-pcep-types:pcep_initiator_t
|           +--ro state?              ipi-pcep-types:pcep_session_state_t
|           +--ro state-changes?      uint32
|           +--ro state-last-change?   yang:timestamp
|           +--ro creation-time?       yang:timestamp
|           +--ro connect-retry?       yang:counter32
|           +--ro open-retry?          uint8
|           +--ro local-id?            uint8
|           +--ro remote-id?          uint8
|           +--ro peer-overloaded?     boolean
|           +--ro peer-overload-time?  uint32
|           +--ro keepalive-timer?     uint8
|           +--ro peer-keepalive-timer? uint8
|           +--ro dead-timer?          uint8
|           +--ro peer-dead-timer?     uint8
|           +--ro keepalive-hold-timer-remain? uint8
|           +--ro max-unknown-message? uint32
+--rw init-lsp-limit
| +--rw config!
| | +--rw lsp-limit  uint32
| +--ro state

```

```

|   +--ro lsp-limit   uint32
+--rw debug
|   +--rw config
| |   +--rw options?  ipi-pcep-types:pcep_debug_t
|   +--ro state
|   +--ro options?    ipi-pcep-types:pcep_debug_t
|   +--ro terminal-debug-status? ipi-pcep-types:pcep_debug_t
+--rw srv6-spirent-comp
    +--rw config
    |   +--rw srv6-spirent-comp?  empty
    +--ro state
        +--ro srv6-spirent-comp?  empty

```

rpcs:

```

+---x clear-pcep-peer-all {feature-list:HAVE_PCEP}?
+---x clear-pcep-peer {feature-list:HAVE_PCEP}?
|   +---w input
|   +---w address   inet:ip-address
+---x clear-pcep-statistics {feature-list:HAVE_PCEP}?
+---x debug-pcep-all {feature-list:HAVE_PCEP}?
+---x pcep-terminal-debug-on {feature-list:HAVE_PCEP}?
|   +---w input
|   +---w terminal-debug-options  ipi-pcep-types:pcep_debug_t
+---x pcep-terminal-debug-off {feature-list:HAVE_PCEP}?
|   +---w input
|   +---w terminal-debug-options  ipi-pcep-types:pcep_debug_t
+---x clear-pcep-requests {feature-list:HAVE_PCEP}?
    +---w input
        +---w tunnel-id  string

```

notifications:

```

+---n pcep-session-up
|   +--ro severity?      cml-data-types:cml_notif_severity_t
|   +--ro eventClass?    cml-data-types:cml_notif_class_t
|   +--ro address?       ipi-pcep-types:pcep_ip_addr_t
|   +--ro entity-id?     uint32

```

```

| +--ro initiator?      ipi-pcep-types:pcep_initiator_t
| +--ro state-last-change? yang:timestamp
| +--ro state?          ipi-pcep-types:pcep_session_state_t
+---n pcep-session-down
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro address?        ipi-pcep-types:pcep_ip_addr_t
| +--ro entity-id?      uint32
| +--ro initiator?      ipi-pcep-types:pcep_initiator_t
| +--ro state-last-change? yang:timestamp
| +--ro state?          ipi-pcep-types:pcep_session_state_t
+---n pcep-session-peer-overload
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro address?        ipi-pcep-types:pcep_ip_addr_t
| +--ro entity-id?      uint32
| +--ro initiator?      ipi-pcep-types:pcep_initiator_t
| +--ro peer-overloaded? boolean
| +--ro peer-overload-time? uint32
+---n pcep-session-peer-overload-clear
  +--ro severity?       cml-data-types:cml_notif_severity_t
  +--ro eventClass?     cml-data-types:cml_notif_class_t
  +--ro address?        ipi-pcep-types:pcep_ip_addr_t
  +--ro entity-id?      uint32
  +--ro initiator?      ipi-pcep-types:pcep_initiator_t
  +--ro peer-overloaded? boolean

```

ipi-pim

```

+--rw pim
  +--rw debug {feature-list:HAVE_BFD}?
    | +--rw config
    | | +--rw bfd? empty
    | +--ro state
    | +--ro bfd? empty
    | +--ro terminal-debug-status? cml-data-types:cml_on_off_t
  +--rw ipv4
    +--rw instances
    | +--rw instance* [vrf-name]
    | | +--rw vrf-name -> ../config/vrf-name
    | | +--rw config
    | | | +--rw vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    | | | +--rw router-id? inet:ipv4-address {feature-list:HAVE_PIM_SM}?
    | | | +--rw join-prune-interval? uint16 {feature-list:HAVE_PIM_SM}?
    | | | +--rw ecmp-bundle* string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
    | | | +--rw enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    | | +--ro state
    | | | +--ro vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    | | | +--ro router-id? inet:ipv4-address {feature-list:HAVE_PIM_SM}?
    | | | +--ro join-prune-interval? uint16 {feature-list:HAVE_PIM_SM}?
    | | | +--ro ecmp-bundle* string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
    | | | +--ro enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    | | +--ro counters
    | | | +--ro joins-sent? yang:counter64
    | | | +--ro joins-received? yang:counter64
    | | +--ro rp-sets
    | | | +--ro rp-set* [group-address]

```

```

| | |   +--ro group-address  -> ../state/group-address
| | |   +--ro state
| | |   | +--ro group-address?  cml-data-types:cml_ipv4_addr_prefix_t
| | |   | +--ro fragment-tag?   uint16
| | |   | +--ro number-of-rp?   uint32
| | |   | +--ro expiration-time? string
| | |   +--ro rps
| | |       +--ro rp* [rp-address]
| | |           +--ro rp-address  -> ../state/rp-address
| | |           +--ro state
| | |               +--ro rp-address?   inet:ipv4-address
| | |               +--ro from?         inet:ipv4-address
| | |               +--ro mode?         ipi-pim-ipv4-types:pim_ipv4_rp_mode_t
| | |               +--ro type?         ipi-pim-ipv4-types:pim_ipv4_rp_type_t
| | |               +--ro priority?     uint8
| | |               +--ro hold-time?    uint16
| | |               +--ro up-time?     string
| | |               +--ro expiration-time? string
| | +--ro next-hop-destinations
| | | +--ro next-hop-destination* [destination-address]
| | | +--ro destination-address  -> ../state/destination-address
| | | +--ro state
| | | | +--ro destination-address?   inet:ipv4-address
| | | | +--ro destination-type?      ipi-pim-ipv4-types:pim_ipv4_next_hop_flags_t
| | | | +--ro next-hop-count?        uint32
| | | | +--ro preference?            uint16
| | | | +--ro metric?                uint32
| | | | +--ro reference-count?       uint32
| | | | +--ro route-type?            ipi-pim-ipv4-types:pim_ipv4_route_type_t
| | | | +--ro route-sub-type?        ipi-pim-ipv4-types:pim_ipv4_route_sub_type_t
| | | | +--ro subaddress-family-identifier? uint32
| | | | +--ro interface-index?       uint16
| | | +--ro next-hops
| | |     +--ro next-hop* [ipv4-address]
| | |         +--ro ipv4-address  -> ../state/ipv4-address
| | |         +--ro state

```

```

| | | +--ro ipv4-address?      inet:ipv4-address
| | | +--ro type?              ipi-pim-ipv4-types:pim_ipv4_next_hop_type_t
| | | +--ro recursive-active-next-hop? uint8
| | | +--ro recursive-type?     ipi-pim-ipv4-types:pim_ipv4_next_hop_type_t
| | | +--ro recursive-interface-id? uint8
| | | +--ro interface-index?    uint16
| | | +--ro bfd-interface-index? uint16
| | | +--ro interface-name?     string
| | +--rw register-packet {feature-list:HAVE_PIM_SM}?
| | | +--rw config
| | | | +--rw register-reachability-check? cml-data-types:cml_enable_disable_t
| | | | +--rw rate-limit?                uint16
| | | | +--rw suppress-interval?          uint16
| | | | +--rw keep-alive-interval?        uint16
| | | | +--rw source-address?             ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| | | | +--rw accept-register?            string
| | | | +--ro state
| | | | +--ro register-reachability-check? cml-data-types:cml_enable_disable_t
| | | | +--ro rate-limit?                  uint16
| | | | +--ro suppress-interval?            uint16
| | | | +--ro keep-alive-interval?          uint16
| | | | +--ro source-address?               ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| | | | +--ro accept-register?              string
| | | | +--ro counters
| | | | | +--ro register-packet-received? yang:counter64
| | | | | +--ro register-null-received?  yang:counter64
| | | | | +--ro register-stop-sent?      yang:counter64
| | | | | +--ro register-stop-received?  yang:counter64
| | +--rw interop
| | | +--rw config
| | | | +--rw ignore-rp-set-priority?     empty {feature-list:HAVE_PIM_SM}?
| | | | +--rw cisco-bsr-interop-enable?   empty {feature-list:HAVE_PIM_SM}?
| | | | +--ro state
| | | | | +--ro ignore-rp-set-priority?    empty {feature-list:HAVE_PIM_SM}?
| | | | | +--ro cisco-bsr-interop-enable?  empty {feature-list:HAVE_PIM_SM}?
| | | +--rw register-packet

```

```
| | | +--rw config!
| | | | +--rw cisco-register-checksum-enable empty {feature-list:HAVE_PIM_SM}?
| | | | +--rw access-control-list? string {feature-list:HAVE_PIM_SM}?
| | | +--ro state
| | |   +--ro cisco-register-checksum-enable empty {feature-list:HAVE_PIM_SM}?
| | |   +--ro access-control-list? string {feature-list:HAVE_PIM_SM}?
| | +--rw spt-switch
| | | +--rw config!
| | | | +--rw enable empty {feature-list:HAVE_PIM_SM}?
| | | | +--rw access-control-list? string {feature-list:HAVE_PIM_SM}?
| | | | +--ro state
| | | |   +--ro enable empty {feature-list:HAVE_PIM_SM}?
| | | |   +--ro access-control-list? string {feature-list:HAVE_PIM_SM}?
| | +--rw ssm {feature-list:HAVE_PIM_SSM}?
| | | +--rw config
| | | | +--rw range-policy? ipi-pim-ipv4-types:pim_ipv4_ssm_range_policy_type_t
| | | | +--ro state
| | | |   +--ro range-policy? ipi-pim-ipv4-types:pim_ipv4_ssm_range_policy_type_t
| | +--rw anycast-rps {feature-list:HAVE_PIM_SM}?
| | | +--rw anycast-rp* [anycast-rp-address member-rp-address]
| | |   +--rw anycast-rp-address -> ../config/anycast-rp-address
| | |   +--rw member-rp-address -> ../config/member-rp-address
| | |   +--rw config
| | | | +--rw anycast-rp-address? inet:ipv4-address
| | | | +--rw member-rp-address? inet:ipv4-address
| | |   +--ro state
| | |     +--ro anycast-rp-address? inet:ipv4-address
| | |     +--ro member-rp-address? inet:ipv4-address
| | +--rw rendezvous-point
| | | +--rw static-rps
| | | | +--rw static-rps-default
| | | | | +--rw static-rp-default* [rp-address]
| | | | |   +--rw rp-address -> ../config/rp-address
| | | | |   +--rw config
| | | | | | +--rw rp-address? inet:ipv4-address
| | | | | | +--rw access-control-list? string
```

```

| | | | +--rw override-dynamically-learned-rp? empty
| | | | +--ro state
| | | |   +--ro rp-address?          inet:ipv4-address
| | | |   +--ro access-control-list?    string
| | | |   +--ro override-dynamically-learned-rp? empty
| | | +--rw bootstrap-router
| | | | +--rw bsr-candidate
| | | |   +--rw config
| | | | | +--rw interface-name?  -> /ipi-interface:interfaces/interface/name
| | | | | +--rw hash-mask-length? uint8
| | | | | +--rw priority?        uint8
| | | |   +--ro state
| | | |   +--ro interface-name?  -> /ipi-interface:interfaces/interface/name
| | | |   +--ro hash-mask-length? uint8
| | | |   +--ro priority?        uint8
| | | +--rw rp-candidates
| | | | +--rw rp-candidate* [interface-name]
| | | |   +--rw interface-name  -> ../config/interface-name
| | | |   +--rw config
| | | | | +--rw interface-name?    -> /ipi-interface:interfaces/interface/name
| | | | | +--rw access-control-list? string
| | | | | +--rw advertisement-interval? uint16
| | | | | +--rw priority?          uint8
| | | |   +--ro state
| | | |   +--ro interface-name?    -> /ipi-interface:interfaces/interface/name
| | | |   +--ro access-control-list? string
| | | |   +--ro advertisement-interval? uint16
| | | |   +--ro priority?          uint8
| | +--rw msdp {feature-list:HAVE_PIM_MSDP}?
| | | +--rw config
| | | | +--rw originator-id? string
| | | | +--ro state
| | | | +--ro originator-id?      string
| | | | +--ro source-active-entries-entries-count? uint32
| | | +--rw source-active-entries
| | | | +--rw source-active-entry* [source-address group-address]

```

```

| | | | +--rw source-address -> ../config/source-address
| | | | +--rw group-address  -> ../config/group-address
| | | | +--rw config
| | | | | +--rw source-address? inet:ipv4-address
| | | | | +--rw group-address?  inet:ipv4-address
| | | | | +--rw rp-address      inet:ipv4-address
| | | | +--ro state
| | | |   +--ro source-address?      inet:ipv4-address
| | | |   +--ro group-address?      inet:ipv4-address
| | | |   +--ro rp-address           inet:ipv4-address
| | | |   +--ro static-configured?   empty
| | | |   +--ro uptime?             string
| | | |   +--ro expire-time?        uint32
| | | |   +--ro stopped?            empty
| | | |   +--ro sa-rp-forward-count? yang:counter64
| | | |   +--ro reverse-path-forwarding-peer? inet:ipv4-address
| | | +--rw peers
| | |   +--rw peer* [address]
| | |     +--rw address -> ../config/address
| | |     +--rw config
| | |       | +--rw address?      inet:ipv4-address
| | |       | +--rw source-address? ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| | |       | +--rw mesh-group?   string
| | |       | +--rw default-peer? empty
| | |       | +--rw prefix-list?  ipi-pim-ipv4-types:pim_ipv4_msdp_peer_acl_t
| | |       +--ro state
| | |       | +--ro counters
| | |       | | +--ro keepalives-sent? yang:counter64
| | |       | | +--ro keepalives-received? yang:counter64
| | |       | | +--ro connection-retries? yang:counter64
| | |       | +--ro address?      inet:ipv4-address
| | |       | +--ro source-address? ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| | |       | +--ro mesh-group?   string
| | |       | +--ro default-peer? empty
| | |       | +--ro prefix-list?  ipi-pim-ipv4-types:pim_ipv4_msdp_peer_acl_t
| | |       | +--ro peer-state?   ipi-pim-ipv4-types:pim_ipv4_msdp_peer_state_t

```

```

| | | | +--ro peer-role?      ipi-pim-ipv4-types:pim_ipv4_msdp_peer_role_t
| | |   +--rw authentication
| | |     +--rw config
| | |       | +--rw password?  string {feature-list:HAVE_TCP_MD5SIG}?
| | |       +--ro state
| | |         +--ro password?  string {feature-list:HAVE_TCP_MD5SIG}?
| |   +--rw debug
| |     +--rw config
| |       | +--rw options?  ipi-pim-ipv4-types:pim_ipv4_debug_t
| |       +--ro state
| |         +--ro options?      ipi-pim-ipv4-types:pim_ipv4_debug_t
| |         +--ro terminal-debug-status?  ipi-pim-ipv4-types:pim_ipv4_debug_t
| |   +--ro multicast-route-table
| |     +--ro state
| |       | +--ro counters
| |       |   +--ro xxrp-entries?  yang:counter32
| |       |   +--ro g-prefix-entries?  yang:counter32
| |       |   +--ro xg-entries?      yang:counter32
| |       |   +--ro sg-entries?      yang:counter32
| |       |   +--ro sg-rpt-entries?  yang:counter32
| |       |   +--ro fcr-entries?     yang:counter32
| |     +--ro multicast-routes
| |       +--ro multicast-route* [source-address group-address type]
| |         +--ro source-address      -> ../state/source-address
| |         +--ro group-address       -> ../state/group-address
| |         +--ro type                -> ../state/type
| |         +--ro state
| |           | +--ro source-address?  inet:ipv4-address
| |           | +--ro group-address?   inet:ipv4-address
| |           | +--ro mode?            ipi-pim-ipv4-types:pim_ipv4_multicast_route_mode_t
| |           | +--ro type?            ipi-pim-ipv4-types:pim_ipv4_multicast_route_type_t
| |           | +--ro uptime?          string
| |           | +--ro next-hop-address?  inet:ipv4-address
| |           | +--ro next-hop-interface-name?  string
| |           | +--ro last-rendezvous-point?  inet:ipv4-address
| |           | +--ro spt-switch?        empty

```

```

| | | +--ro local-olist*      string
| | | +--ro joined-olist*    string
| | | +--ro inherited-olist*  string
| | | +--ro pruned-olist*     string
| | | +--ro upstream-xxrp
| | | +--ro state
| | | | +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
| | | | +--ro join-prune-timer? uint32
| | | | +--ro last-rpf-neighbor-address? inet:ipv4-address
| | | | +--ro last-rpf-next-hop-address? inet:ipv4-address
| | | | +--ro macro-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
| | | +--ro upstream-xg
| | | | +--ro state
| | | | | +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
| | | | | +--ro join-prune-timer? uint32
| | | | | +--ro last-rpf-neighbor-address? inet:ipv4-address
| | | | | +--ro macro-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
| | | +--ro upstream-sg
| | | | +--ro state
| | | | | +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
| | | | | +--ro join-prune-timer? uint32
| | | | | +--ro last-rpf-neighbor-address? inet:ipv4-address
| | | | | +--ro keep-alive-timer? uint32
| | | | | +--ro spt-switch?      empty
| | | | | +--ro macro-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
| | | +--ro upstream-sg-rpt
| | | | +--ro state
| | | | | +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_sg_rpt_mode_t
| | | | | +--ro override-timer? uint32
| | | +--ro forwarding-cache-registers
| | | | +--ro forwarding-cache-register* [address]
| | | | +--ro address -> ../state/address
| | | | +--ro state
| | | | | +--ro address?        inet:ipv4-address

```

```

| |      |      +--ro keep-alive-timer?  uint32
| |      |      +--ro inherited-olist*   string
| |      +--ro downstream-interfaces
| |          +--ro downstream-interface* [interface-name]
| |              +--ro interface-name      -> ../state/interface-name
| |              +--ro state
| |                  | +--ro interface-name?  string
| |              +--ro downstream-xg-sg
| |                  | +--ro state
| |                  |   +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_state_t
| |                  |   +--ro expiry-timer?   uint32
| |                  |   +--ro prune-pending-timer?  uint32
| |                  |   +--ro assert-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_assert_state_t
| |                  |   +--ro assert-timer?    uint32
| |                  |   +--ro winner-address?   inet:ipv4-address
| |                  |   +--ro metric?          uint32
| |                  |   +--ro preference?      uint32
| |                  |   +--ro rpt-bit?        empty
| |                  |   +--ro macro-state?     ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_macro_state_t
| |              +--ro downstream-xxrp-sg-rpt
| |                  +--ro state
| |                      +--ro route-state?    ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_state_t
| |                      +--ro rpt-state?      ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_rpt_state_t
| |                      +--ro expiry-timer?   uint32
| |                      +--ro prune-pending-timer?  uint32
| +--rw interfaces
|   +--rw interface* [name]
|     +--rw name      -> ../config/name
|     +--rw config
|       | +--rw name?          -> /ipi-interface:interfaces/interface/name
|       | +--rw pim-mode?      ipi-pim-ipv4-types:pim_ipv4_mode_t
|       | +--rw bsr-border?    empty {feature-list:HAVE_PIM_SM}?
|       | +--rw dr-priority?   uint32
|       | +--rw hello-interval? uint16
|       | +--rw hello-holdtime? uint16
|       | +--rw passive-enable? empty

```

```
| | +--rw exclude-generated-id?          empty {feature-list:HAVE_PIM_SM}?
| | +--rw unicast-bootstrap-router?      empty {feature-list:HAVE_PIM_SM}?
| | +--rw neighbor-access-control-list-filter? string
| | +--rw state-refresh-origination-interval? uint16 {feature-list:HAVE_PIM_DM}?
| | +--rw ecmp-bundle?                   string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
| | +--rw propagation-delay?             uint16
| | +--rw enable-bfd?                    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
| +--ro state
| | +--ro name?                          -> /ipi-interface:interfaces/interface/name
| | +--ro pim-mode?                      ipi-pim-ipv4-types:pim_ipv4_mode_t
| | +--ro bsr-border?                    empty {feature-list:HAVE_PIM_SM}?
| | +--ro dr-priority?                   uint32
| | +--ro hello-interval?                uint16
| | +--ro hello-holdtime?                uint16
| | +--ro passive-enable?                empty
| | +--ro exclude-generated-id?          empty {feature-list:HAVE_PIM_SM}?
| | +--ro unicast-bootstrap-router?      empty {feature-list:HAVE_PIM_SM}?
| | +--ro neighbor-access-control-list-filter? string
| | +--ro state-refresh-origination-interval? uint16 {feature-list:HAVE_PIM_DM}?
| | +--ro ecmp-bundle?                   string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
| | +--ro propagation-delay?             uint16
| | +--ro enable-bfd?                    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
| | +--ro next-hello?                   string
| | +--ro router-id?                     inet:ipv4-address
| | +--ro local-id?                      uint32
| | +--ro dr-address?                    inet:ipv4-address
| +--ro neighbors
| | +--ro neighbor* [address]
| |   +--ro address -> ../state/address
| |   +--ro state
| |     +--ro address?                    inet:ipv4-address
| |     +--ro designated-router?         empty
| |     +--ro neighbor-established?      string
| |     +--ro neighbor-expires?          string
| |     +--ro secondary-address*         inet:ipv4-address
| |     +--ro hello-holdtime?            uint16
```

```

| | +--ro lan-delay?          uint16
| | +--ro override-interval?  uint32
| | +--ro dr-priority?        uint32 {feature-list:HAVE_PIM_SM}?
| | +--ro generated-id?       uint32
| | +--ro router-id?          inet:ipv4-address
| | +--ro local-id?           uint32
| | +--ro tracking-support?    empty
| | +--ro ecmp-redirect-enabled? empty {feature-list:HAVE_PIM_ECMP_REDIRECT}?
| +--rw pim-redundancy
|   +--rw vrrp {feature-list:HAVE_PIM_SM_VRRP_AWARE}?
|     +--rw config!
|       | +--rw virtual-router-id  uint8
|       | +--rw dr-priority        uint32
|       +--ro state
|         +--ro virtual-router-id  uint8
|         +--ro dr-priority        uint32
|         +--ro selected-dr-priority? uint32
|         +--ro vrrp-master?       boolean
+--rw ipv6
  +--rw instances
    | +--rw instance* [vrf-name]
    |   +--rw vrf-name          -> ../config/vrf-name
    |   +--rw config
    | | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    | | +--rw router-id?          inet:ipv4-address {feature-list:HAVE_PIM_SM}?
    | | +--rw join-prune-interval? uint16 {feature-list:HAVE_PIM_SM}?
    | | +--rw ecmp-bundle*        string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
    | | +--rw enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    | +--ro state
    | | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    | | +--ro router-id?          inet:ipv4-address {feature-list:HAVE_PIM_SM}?
    | | +--ro join-prune-interval? uint16 {feature-list:HAVE_PIM_SM}?
    | | +--ro ecmp-bundle*        string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
    | | +--ro enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    | +--ro counters

```

```

| | | +--ro joins-sent?    yang:counter64
| | | +--ro joins-received? yang:counter64
| | +--ro rp-sets
| |   +--ro rp-set* [group-address]
| |     +--ro group-address -> ../state/group-address
| |     +--ro state
| |       | +--ro group-address?  cml-data-types:cml_ipv6_prefix_t
| |       | +--ro fragment-tag?   uint16
| |       | +--ro number-of-rp?   uint32
| |       | +--ro expiration-time? string
| |       +--ro rps
| |         +--ro rp* [rp-address]
| |           +--ro rp-address -> ../state/rp-address
| |           +--ro state
| |             +--ro rp-address?   inet:ipv6-address
| |             +--ro from?         inet:ipv6-address
| |             +--ro mode?         ipi-pim-ipv6-types:pim_ipv6_rp_mode_t
| |             +--ro type?         ipi-pim-ipv6-types:pim_ipv6_rp_type_t
| |             +--ro priority?     uint8
| |             +--ro hold-time?    uint16
| |             +--ro up-time?      string
| |             +--ro expiration-time? string
| +--ro next-hop-destinations
| | +--ro next-hop-destination* [destination-address]
| |   +--ro destination-address -> ../state/destination-address
| |   +--ro state
| |     | +--ro destination-address?   inet:ipv6-address
| |     | +--ro destination-type?      ipi-pim-ipv6-types:pim_ipv6_next_hop_flags_t
| |     | +--ro next-hop-count?        uint32
| |     | +--ro preference?            uint16
| |     | +--ro metric?                uint32
| |     | +--ro reference-count?       uint32
| |     | +--ro route-type?            ipi-pim-ipv6-types:pim_ipv6_route_type_t
| |     | +--ro route-sub-type?        ipi-pim-ipv6-types:pim_ipv6_route_sub_type_t
| |     | +--ro subaddress-familiy-identifier? uint32
| |     | +--ro interface-index?      uint16

```

```

| | +--ro next-hops
| |   +--ro next-hop* [ipv6-address]
| |     +--ro ipv6-address  -> ../state/ipv6-address
| |     +--ro state
| |       +--ro ipv6-address?      inet:ipv6-address
| |       +--ro type?              ipi-pim-ipv6-types:pim_ipv6_next_hop_type_t
| |       +--ro recursive-active-next-hop?  uint8
| |       +--ro recursive-type?        ipi-pim-ipv6-types:pim_ipv6_next_hop_type_t
| |       +--ro recursive-interface-id?  uint8
| |       +--ro interface-index?      uint16
| |       +--ro bfd-interface-index?   uint16
| |       +--ro interface-name?       string
| +--rw register-packet {feature-list:HAVE_PIM_SM}?
| | +--rw config
| | | +--rw register-reachability-check? cml-data-types:cml_enable_disable_t
| | | +--rw rate-limit?                uint16
| | | +--rw suppress-interval?         uint16
| | | +--rw keep-alive-interval?       uint16
| | | +--rw source-address?            ipi-pim-ipv6-types:pim_ipv6_reg_source_t
| | | +--rw accept-register?           string
| | +--ro state
| | | +--ro register-reachability-check? cml-data-types:cml_enable_disable_t
| | | +--ro rate-limit?                uint16
| | | +--ro suppress-interval?         uint16
| | | +--ro keep-alive-interval?       uint16
| | | +--ro source-address?            ipi-pim-ipv6-types:pim_ipv6_reg_source_t
| | | +--ro accept-register?           string
| | +--ro counters
| | | +--ro register-packet-received?  yang:counter64
| | | +--ro register-null-received?   yang:counter64
| | | +--ro register-stop-sent?       yang:counter64
| | | +--ro register-stop-received?   yang:counter64
| +--rw interop
| | +--rw config
| | | +--rw ignore-rp-set-priority?    empty {feature-list:HAVE_PIM_SM}?
| | | +--rw cisco-bsr-interop-enable?  empty {feature-list:HAVE_PIM_SM}?

```

```

| | +--ro state
| | | +--ro ignore-rp-set-priority? empty {feature-list:HAVE_PIM_SM}?
| | | +--ro cisco-bsr-interop-enable? empty {feature-list:HAVE_PIM_SM}?
| | +--rw register-packet
| |   +--rw config!
| |     | +--rw cisco-register-checksum-enable empty {feature-list:HAVE_PIM_SM}?
| |     | +--rw access-control-list? string {feature-list:HAVE_PIM_SM}?
| |     +--ro state
| |       +--ro cisco-register-checksum-enable empty {feature-list:HAVE_PIM_SM}?
| |       +--ro access-control-list? string {feature-list:HAVE_PIM_SM}?
| +--rw spt-switch
| | +--rw config!
| | | +--rw enable empty {feature-list:HAVE_PIM_SM}?
| | | +--rw access-control-list? string {feature-list:HAVE_PIM_SM}?
| | +--ro state
| |   +--ro enable empty {feature-list:HAVE_PIM_SM}?
| |   +--ro access-control-list? string {feature-list:HAVE_PIM_SM}?
| +--rw ssm {feature-list:HAVE_PIM_SSM}?
| | +--rw config
| | | +--rw range-policy? ipi-pim-ipv6-types:pim_ipv6_ssm_range_policy_type_t
| | +--ro state
| |   +--ro range-policy? ipi-pim-ipv6-types:pim_ipv6_ssm_range_policy_type_t
| +--rw anycast-rps {feature-list:HAVE_PIM_SM}?
| | +--rw anycast-rp* [anycast-rp-address member-rp-address]
| |   +--rw anycast-rp-address -> ../config/anycast-rp-address
| |   +--rw member-rp-address -> ../config/member-rp-address
| |   +--rw config
| |     | +--rw anycast-rp-address? inet:ipv6-address
| |     | +--rw member-rp-address? inet:ipv6-address
| |     +--ro state
| |       +--ro anycast-rp-address? inet:ipv6-address
| |       +--ro member-rp-address? inet:ipv6-address
| +--rw rendezvous-point
| | +--rw config
| | | +--rw embed-rp? cml-data-types:cml_enable_disable_t
| | +--ro state

```

```

| | | +--ro embed-rp?  cml-data-types:cml_enable_disable_t
| | | +--rw static-rps
| | | +--rw static-rps-default
| | |   +--rw static-rp-default* [rp-address]
| | |     +--rw rp-address  -> ../config/rp-address
| | |     +--rw config
| | |       | +--rw rp-address?          inet:ipv6-address
| | |       | +--rw access-control-list?  string
| | |       | +--rw override-dynamically-learned-rp?  empty
| | |       +--ro state
| | |         +--ro rp-address?          inet:ipv6-address
| | |         +--ro access-control-list?  string
| | |         +--ro override-dynamically-learned-rp?  empty
| | +--rw bootstrap-router
| | | +--rw bsr-candidate
| | |   +--rw config
| | |     | +--rw interface-name?  -> /ipi-interface:interfaces/interface/name
| | |     | +--rw hash-mask-length?  uint8
| | |     | +--rw priority?          uint8
| | |     +--ro state
| | |       +--ro interface-name?  -> /ipi-interface:interfaces/interface/name
| | |       +--ro hash-mask-length?  uint8
| | |       +--ro priority?          uint8
| | +--rw rp-candidates
| | | +--rw rp-candidate* [interface-name]
| | |   +--rw interface-name  -> ../config/interface-name
| | |   +--rw config
| | |     | +--rw interface-name?      -> /ipi-interface:interfaces/interface/name
| | |     | +--rw access-control-list?  string
| | |     | +--rw advertisement-interval?  uint16
| | |     | +--rw priority?              uint8
| | |     +--ro state
| | |       +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
| | |       +--ro access-control-list?  string
| | |       +--ro advertisement-interval?  uint16
| | |       +--ro priority?              uint8

```

```

|   +--rw debug
|   |   +--rw config
|   |   |   +--rw options?  ipi-pim-ipv6-types:pim_ipv6_debug_t
|   |   |   +--ro state
|   |   |   |   +--ro options?          ipi-pim-ipv6-types:pim_ipv6_debug_t
|   |   |   |   +--ro terminal-debug-status?  ipi-pim-ipv6-types:pim_ipv6_debug_t
|   |   +--ro multicast-route-table
|   |   |   +--ro state
|   |   |   |   +--ro counters
|   |   |   |   |   +--ro xxrp-entries?    yang:counter32
|   |   |   |   |   +--ro g-prefix-entries? yang:counter32
|   |   |   |   |   +--ro xg-entries?     yang:counter32
|   |   |   |   |   +--ro sg-entries?     yang:counter32
|   |   |   |   |   +--ro sg-rpt-entries? yang:counter32
|   |   |   |   |   +--ro fcr-entries?    yang:counter32
|   |   |   +--ro multicast-routes
|   |   |   |   +--ro multicast-route* [source-address group-address type]
|   |   |   |   |   +--ro source-address      -> ../state/source-address
|   |   |   |   |   +--ro group-address       -> ../state/group-address
|   |   |   |   |   +--ro type                -> ../state/type
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro source-address?    inet:ipv6-address
|   |   |   |   |   |   +--ro group-address?     inet:ipv6-address
|   |   |   |   |   |   +--ro mode?              ipi-pim-ipv6-types:pim_ipv6_multicast_route_mode_t
|   |   |   |   |   |   +--ro type?              ipi-pim-ipv6-types:pim_ipv6_multicast_route_type_t
|   |   |   |   |   |   +--ro uptime?            string
|   |   |   |   |   |   +--ro next-hop-address?   inet:ipv6-address
|   |   |   |   |   |   +--ro next-hop-interface-name? string
|   |   |   |   |   |   +--ro last-rendezvous-point? inet:ipv6-address
|   |   |   |   |   |   +--ro spt-switch?        empty
|   |   |   |   |   |   +--ro local-olist*       string
|   |   |   |   |   |   +--ro joined-olist*      string
|   |   |   |   |   |   +--ro inherited-olist*   string
|   |   |   |   |   |   +--ro pruned-olist*     string
|   |   |   +--ro upstream-xxrp
|   |   |   |   +--ro state

```

```

|      | +--ro route-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|      | +--ro join-prune-timer?      uint32
|      | +--ro last-rpf-neighbor-address? inet:ipv6-address
|      | +--ro last-rpf-next-hop-address? inet:ipv6-address
|      | +--ro macro-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|      +--ro upstream-xg
|      | +--ro state
|      | +--ro route-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|      | +--ro join-prune-timer?      uint32
|      | +--ro last-rpf-neighbor-address? inet:ipv6-address
|      | +--ro macro-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|      +--ro upstream-sg
|      | +--ro state
|      | +--ro route-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|      | +--ro join-prune-timer?      uint32
|      | +--ro last-rpf-neighbor-address? inet:ipv6-address
|      | +--ro keep-alive-timer?      uint32
|      | +--ro spt-switch?            empty
|      | +--ro macro-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|      +--ro upstream-sg-rpt
|      | +--ro state
|      | +--ro route-state?    ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_sgrpt_mode_t
|      | +--ro override-timer? uint32
|      +--ro forwarding-cache-registers
|      | +--ro forwarding-cache-register* [address]
|      | +--ro address -> ../state/address
|      | +--ro state
|      |   +--ro address?      inet:ipv6-address
|      |   +--ro keep-alive-timer? uint32
|      |   +--ro inherited-olist* string
|      +--ro downstream-interfaces
|      | +--ro downstream-interface* [interface-name]
|      | +--ro interface-name -> ../state/interface-name
|      +--ro state

```

```

|         | +--ro interface-name?  string
|         +--ro downstream-xg-sg
|         | +--ro state
|         |   +--ro route-state?      ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_state_t
|         |   +--ro expiry-timer?     uint32
|         |   +--ro prune-pending-timer?  uint32
|         |   +--ro assert-state?      ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_assert_state_t
|         |   +--ro assert-timer?     uint32
|         |   +--ro winner-address?    inet:ipv6-address
|         |   +--ro metric?           uint32
|         |   +--ro preference?       uint32
|         |   +--ro rpt-bit?          empty
|         |   +--ro macro-state?      ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_macro_state_t
|         +--ro downstream-xxrp-sg-rpt
|         +--ro state
|           +--ro route-state?      ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_state_t
|           +--ro rpt-state?        ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_rpt_state_t
|           +--ro expiry-timer?     uint32
|           +--ro prune-pending-timer?  uint32

```

+--rw interfaces

+--rw interface* [name]

+--rw name -> ../config/name

+--rw config

```

| +--rw name?          -> /ipi-interface:interfaces/interface/name
| +--rw pim-mode?      ipi-pim-ipv6-types:pim_ipv6_mode_t
| +--rw bsr-border?    empty {feature-list:HAVE_PIM_SM}?
| +--rw dr-priority?   uint32
| +--rw hello-interval? uint16
| +--rw hello-holdtime? uint16
| +--rw passive-enable? empty
| +--rw exclude-generated-id? empty {feature-list:HAVE_PIM_SM}?
| +--rw unicast-bootstrap-router? empty {feature-list:HAVE_PIM_SM}?
| +--rw neighbor-access-control-list-filter? string
| +--rw state-refresh-origination-interval? uint16 {feature-list:HAVE_PIM_DM}?
| +--rw ecmp-bundle?   string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
| +--rw propagation-delay? uint16

```

```

| +--rw enable-bfd?                cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
+--ro state
| +--ro name?                      -> /ipi-interface:interfaces/interface/name
| +--ro pim-mode?                  ipi-pim-ipv6-types:pim_ipv6_mode_t
| +--ro bsr-border?                empty {feature-list:HAVE_PIM_SM}?
| +--ro dr-priority?               uint32
| +--ro hello-interval?            uint16
| +--ro hello-holdtime?            uint16
| +--ro passive-enable?            empty
| +--ro exclude-generated-id?      empty {feature-list:HAVE_PIM_SM}?
| +--ro unicast-bootstrap-router?  empty {feature-list:HAVE_PIM_SM}?
| +--ro neighbor-access-control-list-filter? string
| +--ro state-refresh-origination-interval? uint16 {feature-list:HAVE_PIM_DM}?
| +--ro ecmp-bundle?               string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
| +--ro propagation-delay?         uint16
| +--ro enable-bfd?                cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
| +--ro next-hello?                string
| +--ro router-id?                 inet:ipv4-address
| +--ro local-id?                  uint32
| +--ro dr-address?                inet:ipv6-address
+--ro neighbors
  +--ro neighbor* [address]
    +--ro address -> ../state/address
    +--ro state
      +--ro address?                inet:ipv6-address
      +--ro designated-router?      empty
      +--ro neighbor-established?    string
      +--ro neighbor-expires?       string
      +--ro secondary-address*       inet:ipv6-address
      +--ro hello-holdtime?          uint16
      +--ro lan-delay?               uint16
      +--ro override-interval?       uint32
      +--ro dr-priority?             uint32 {feature-list:HAVE_PIM_SM}?
      +--ro generated-id?            uint32
      +--ro router-id?               inet:ipv4-address
      +--ro local-id?                uint32

```

```

    +--ro tracking-support?      empty
    +--ro ecmp-redirect-enabled? empty {feature-list:HAVE_PIM_ECMP_REDIRECT}?

```

rpcs:

```

+---x pim-snmpp-restart {feature-list:HAVE_SNMP}?
+---x pim-ipv4-clear-bsr-rendezvous-point {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_SM}?
| +---w input
|   +---w vrf-name?  string
|   +---w pim-mode   ipi-pim-ipv4-types:pim_ipv4_mode_clear_bsr_rp_t
+---x pim-ipv4-clear-multicast-route {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?  string
|   +---w pim-mode   ipi-pim-ipv4-types:pim_ipv4_mode_t
+---x pim-ipv4-clear-multicast-route-source-group {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address inet:ipv4-address
+---x pim-ipv4-clear-multicast-route-source-group-mode {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address inet:ipv4-address
|   +---w source-address inet:ipv4-address
|   +---w pim-mode      ipi-pim-ipv4-types:pim_ipv4_mode_t
+---x pim-ipv4-clear-msdp-peer {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_MSDP_API}?
| +---w input
|   +---w vrf-name?  string
|   +---w address    inet:ipv4-address
+---x pim-ipv4-clear-msdp-sa-cache {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_MSDP_API}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address inet:ipv4-address
+---x pim-ipv4-terminal-debug-on {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?      string
|   +---w terminal-debug-options ipi-pim-ipv4-types:pim_ipv4_debug_t
+---x pim-ipv4-terminal-debug-off {feature-list:HAVE_PIM_IPV4}?

```

```

| +---w input
|   +---w vrf-name?          string
|   +---w terminal-debug-options  ipi-pim-ipv4-types:pim_ipv4_debug_t
+---x pim-ipv4-terminal-debug-all-on {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?  string
+---x pim-ipv4-terminal-debug-all-off {feature-list:HAVE_PIM_IPV4}?
| +---w input
|   +---w vrf-name?  string
+---x pim-ipv6-clear-bsr-rendezvous-point {feature-list:HAVE_PIM_IPV6,feature-list:HAVE_PIM_SM}?
| +---w input
|   +---w vrf-name?  string
|   +---w pim-mode  ipi-pim-ipv6-types:pim_ipv6_mode_clear_bsr_rp_t
+---x pim-ipv6-clear-multicast-route {feature-list:HAVE_PIM_IPV6}?
| +---w input
|   +---w vrf-name?  string
|   +---w pim-mode  ipi-pim-ipv6-types:pim_ipv6_mode_t
+---x pim-ipv6-clear-multicast-route-source-group {feature-list:HAVE_PIM_IPV6}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address  inet:ipv6-address
+---x pim-ipv6-clear-multicast-route-source-group-mode {feature-list:HAVE_PIM_IPV6}?
| +---w input
|   +---w vrf-name?    string
|   +---w group-address  inet:ipv6-address
|   +---w source-address  inet:ipv6-address
|   +---w pim-mode      ipi-pim-ipv6-types:pim_ipv6_mode_t
+---x pim-terminal-debug-bfd-on {feature-list:HAVE_PIMD,feature-list:HAVE_PIM_IPV4,feature-
list:HAVE_PIM_IPV4_OR_HAVE_PIM_IPV6}?
+---x pim-terminal-debug-bfd-off {feature-list:HAVE_PIMD,feature-list:HAVE_PIM_IPV4,feature-
list:HAVE_PIM_IPV4_OR_HAVE_PIM_IPV6}?
+---x pim-ipv6-terminal-debug-on {feature-list:HAVE_PIM_IPV6}?
| +---w input
|   +---w vrf-name?          string
|   +---w terminal-debug-options  ipi-pim-ipv6-types:pim_ipv6_debug_t
+---x pim-ipv6-terminal-debug-off {feature-list:HAVE_PIM_IPV6}?
| +---w input

```

```

| +---w vrf-name?          string
| +---w terminal-debug-options  ipi-pim-ipv6-types:pim_ipv6_debug_t
+---x pim-ipv6-terminal-debug-all-on {feature-list:HAVE_PIM_IPV6}?
| +---w input
| +---w vrf-name?  string
+---x pim-ipv6-terminal-debug-all-off {feature-list:HAVE_PIM_IPV6}?
  +---w input
    +---w vrf-name?  string

```

ipi-ping

```

+--rw ping
  +--ro test-result* [test-name]
    +--ro test-name      -> ../state/test-name
    +--ro replies* [sequence-number]
      | +--ro sequence-number  -> ../state/sequence-number
      | +--ro state
      |   +--ro sequence-number?  uint32
      |   +--ro ttl-or-hop-limit?  uint8
      |   +--ro round-trip-time?  decimal64
      |   +--ro result?          ipi-ping-types:ping_packet_result_t
    +--ro state
      | +--ro test-name?  string
      | +--ro test-status? ipi-ping-types:ping_test_status_t
      | +--ro start-time?  yang:date-and-time
      | +--ro end-time?    yang:date-and-time
    +--ro test-parameters
      | +--ro state
      |   +--ro destination?  string
      |   +--ro protocol?     ipi-ping-types:ping_ip_protocol_t
      |   +--ro vrf-name?     string
      |   +--ro repeat-count?  uint32
      |   +--ro interval?     uint16
      |   +--ro time-to-live?  uint8
      |   +--ro datagram-size? uint32

```

```
|  +--ro timeout?      uint32
|  +--ro deadline?    uint32
+--ro summary-info
  +--ro state
    +--ro packets-transmitted?  uint32
    +--ro packets-received?    uint32
    +--ro success-rate?        uint8
    +--ro loss-rate?           uint8
    +--ro min-rtt?             decimal64
    +--ro rtt-avg?             decimal64
    +--ro max-rtt?             decimal64
```

rpcs:

```
+---x ping-start-test {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w test-name      string
|   +---w destination    string
|   +---w protocol       ipi-ping-types:ping_ip_protocol_t
|   +---w vrf-name?      string
|   +---w repeat-count?  uint32
|   +---w interval?      uint16
|   +---w time-to-live?   uint8
|   +---w datagram-size?  uint32
|   +---w timeout?        uint32
|   +---w deadline?       uint32
+---x ping-stop {feature-list:HAVE_HOSTPD}?
  +---w input
    +---w test-name      string
```

notifications:

```
+---n ping-test-completed
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro test-name?     string
  +--ro test-status?   ipi-ping-types:ping_test_status_t
  +--ro destination?   string
```

ipi-platform-port

augment /ipi-platform:components/ipi-platform:component:
+--ro port

ipi-platform-transceiver-smart-sfp

+--rw smart-sfp

```

+--rw interfaces
| +--rw interface* [interface-name]
|   +--rw interface-name -> ../config/interface-name
|   +--rw config
|     | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
|     | +--rw xcvr-loopback-remote? cmm_xcvr_direction_t
|     +--ro state
|       +--ro interface-name? -> /ipi-interface:interfaces/interface/name
|       +--ro xcvr-loopback-remote? cmm_xcvr_direction_t
+--rw components
  +--ro component* [name]
    +--ro name -> ../state/name
    +--ro state
      +--ro name? string

```

rpcs:

```

+---x smart-sfp-xcvr-txdisable-duration {feature-list:HAVE_CMMD}?
| +---w input
|   +---w if-name string
|   +---w xcvr-tx-disable-duration uint16
+---x smart-sfp-xcvr-reset-remote {feature-list:HAVE_CMMD}?
  +---w input
    +---w if-name string

```

ipi-platform

```

+--rw components
| +--ro component* [name]
| | +--ro name -> ../state/name
| | +--ro state
| | | +--ro name? string

```

```

| | | +--ro type?                ipi-platform-types:cmm_component_type_t {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro location?            string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro mfg-name?            string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro mfg-date?            yang:date-and-time {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro description?         string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro hardware-version?    string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro firmware-version?    string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro software-version?    string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro serial-no?           string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro part-no?             string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro removable?           boolean {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro oper-status?         ipi-platform-types:cmm_component_oper_status_t {feature-
list:NOT_HAVE_TIBIT}?
| | | +--ro product-name?        string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro asset-tag?           string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro component-additional-details* string {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro parent?              -> /components/component/state/name {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro empty?               boolean {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro memory {feature-list:NOT_HAVE_TIBIT}?
| | | | +--ro available?         uint64
| | | | +--ro utilized?         uint64
| | | +--ro board-fru {feature-list:NOT_HAVE_TIBIT}?
| | | | +--ro board-name?        string
| | | | +--ro board-serial-no?   string
| | | | +--ro board-mfg-name?    string
| | | | +--ro board-mfg-date?    yang:date-and-time
| | | +--ro temperature
| | | | +--ro instant?           decimal64
| | | | +--ro min?               decimal64
| | | | +--ro max?               decimal64
| | | | +--ro avg?               decimal64
| | | | +--ro interval?          uint32
| | | | +--ro sensor-name?       string
| | | | +--ro sensor-index?      uint8
| | | | +--ro alarm-status?      boolean
| | | | +--ro alarm-threshold?   decimal64
| | | | +--ro alarm-severity?    cml_alarm_severity_t

```

```

| | | +--ro minimum-emergency-temperature? decimal64
| | | +--ro maximum-emergency-temperature? decimal64
| | | +--ro minimum-alert-temperature? decimal64
| | | +--ro maximum-alert-temperature? decimal64
| | | +--ro minimum-critical-temperature? decimal64
| | | +--ro maximum-critical-temperature? decimal64
| | +--ro bmc-sensor-data-record {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro state
| | | +--ro sensor-name? string
| | | +--ro value? ipi-platform-types:cmm_bmc_value_t
| | | +--ro units? string
| | | +--ro lower-non-recoverable? decimal64
| | | +--ro lower-non-critical? decimal64
| | | +--ro lower-critical? decimal64
| | | +--ro upper-non-critical? decimal64
| | | +--ro upper-critical? decimal64
| | | +--ro upper-non-recoverable? decimal64
| | | +--ro operational-status? string
| | | +--ro threshold? decimal64
| | | +--ro event-type? ipi-platform-types:cmm_bmc_event_type_t
| | +--ro subcomponents
| | | +--ro subcomponent* [subcomponent-name]
| | | +--ro subcomponent-name -> ../state/subcomponent-name
| | | +--ro state
| | | +--ro subcomponent-name? -> /components/component/state/name
| | +--ro cpu
| | | +--ro state
| | | +--ro processor-count? uint32
| | | +--ro cpu-1min-load-percentage? decimal64
| | | +--ro cpu-5min-load-percentage? decimal64
| | | +--ro cpu-15min-load-percentage? decimal64
| | | +--ro cpu-1min-alert-threshold? uint8
| | | +--ro cpu-1min-critical-threshold? uint8
| | | +--ro cpu-5min-alert-threshold? uint8
| | | +--ro cpu-15min-alert-threshold? uint8
| | | +--ro cpu-utilization? decimal64

```

```

| | | +--ro cpu-utilization-alert?      uint8
| | | +--ro cpu-utilization-critical?   uint8
| | +--ro storage
| | | +--ro state
| | | | +--ro serial-number?            string
| | | | +--ro model-number?             string
| | | | +--ro firmware-revision?        string
| | | | +--ro cylinder-count?           uint16
| | | | +--ro head-count?               uint16
| | | | +--ro sector-count?             uint32
| | | | +--ro unformatted-bytes-or-track? uint16
| | | | +--ro unformatted-bytes-or-sector? uint16
| | | | +--ro revision-number?          string
| | | | +--ro total-memory?             uint64
| | | | +--ro used-memory?              uint64
| | | | +--ro free-memory?              uint64
| | | | +--ro usage-critical-threshold?  int32
| | | | +--ro usage-alert-threshold?     int32
| | | | +--ro remaining-life?            int32
| | | | +--ro remain-life-critical-threshold? int32
| | | | +--ro remain-life-alert-threshold? int32
| | | | +--ro available-reserved-space?   int32
| | | | +--ro available-reserved-space-critical-threshold? int32
| | | | +--ro available-reserved-space-alert-threshold? int32
| | | | +--ro reallocated-sector-count?   int32
| | | | +--ro uncorrectable-sector-count? int32
| | | | +--ro manufacturer-id?           string
| | | | +--ro manufacture-date?          string
| | | | +--ro device-type?               string
| | | | +--ro cache-size?                uint64
| | | | +--ro storage-status?            ipi-platform-types:cml_cmm_storage_status_t
| | +--ro hddisk-monitoring
| | | +--ro state
| | | | +--ro interval?                  int32
| | | | +--ro read-average?              int32
| | | | +--ro write-average?             int32

```

```

| | | +--ro read-current?    int32
| | | +--ro write-current?   int32
| | | +--ro read-threshold?  int32
| | | +--ro write-threshold? int32
| | | +--ro mounted-fileSYSTEMS
| | | +--ro mounted-fileSYSTEM* [mount-point]
| | | +--ro mount-point -> ../state/mount-point
| | | +--ro state
| | | +--ro mount-point? string
| | | +--ro total?          uint64
| | | +--ro used?           uint64
| | | +--ro free?           uint64
| | | +--ro usage?          uint8
| | +--ro ram
| | | +--ro state
| | | +--ro total-memory?      uint64
| | | +--ro used-memory?       uint64
| | | +--ro available-memory?  uint64
| | | +--ro shared-memory?     uint64
| | | +--ro buffers?          uint64
| | | +--ro total-swap?        uint64
| | | +--ro free-swap?         uint64
| | | +--ro current-process-count? uint16
| | | +--ro total-high-memory?  uint64
| | | +--ro available-high-memory? uint64
| | | +--ro unit-size?         uint32
| | | +--ro usage-critical-threshold? uint32
| | | +--ro usage-alert-threshold? uint32
| | +--ro transceiver {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro state
| | | | +--ro port-no?          uint8
| | | | +--ro presence?         ipi-platform-transceiver-types:ddm_cmm_trans_presence_t
| | | | +--ro type?             ipi-platform-transceiver-types:ddm_cmm_trans_type_t
| | | | +--ro channel-count?     int32
| | | | +--ro transceiver-identifier? ipi-platform-transceiver-types:ddm_cmm_trans_identifier_t
| | | | +--ro connector-type?    ipi-platform-sff8024-types:cmm_sff8024_connector_type_t

```

```

| | | | +--ro ethernet-compliance-code?          ipi-platform-transceiver-types:ddm_cmm_trans_eth_compliance_t
| | | | +--ro extended-ethernet-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_ext_eth_compliance_t
| | | | +--ro sonet-compliance-code?             ipi-platform-transceiver-types:ddm_cmm_trans_sonet_compliance_t
| | | | +--ro fiber-channel-link-length?         ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_linklen_t
| | | | +--ro fiber-channel-transmission-technology? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmittech_t
| | | | +--ro fiber-channel-transmission-media?   ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmitmedia_t
| | | | +--ro serial-encoding-algorithm?         ipi-platform-transceiver-types:ddm_cmm_trans_encoding_t
| | | | +--ro link-length-kilometer?             int32
| | | | +--ro link-length-meter?                 int32
| | | | +--ro om1-link-length?                   int32
| | | | +--ro om2-link-length?                   int32
| | | | +--ro om3-link-length?                   int32
| | | | +--ro om4-link-length?                   int32
| | | | +--ro vendor-name?                       string
| | | | +--ro vendor-ieee-id?                    string
| | | | +--ro vendor-part-number?                string
| | | | +--ro vendor-revision-number?            string
| | | | +--ro check-code?                        string
| | | | +--ro extended-check-code?               string
| | | | +--ro nominal-signalling-rate?           int32
| | | | +--ro maximum-signalling-rate?           int32
| | | | +--ro minimum-signalling-rate?           int32
| | | | +--ro vendor-serial-number?              string
| | | | +--ro vendor-manufacturing-date?         string
| | | | +--ro ddm-type?                          ipi-platform-transceiver-types:ddm_cmm_trans_ddm_support_t
| | | | +--ro maximum-case-temperature?          decimal64
| | | | +--ro grid-spacing?                      decimal64
| | | | +--ro first-frequency?                   decimal64
| | | | +--ro last-frequency?                    decimal64
| | | | +--ro frequency-error?                   decimal64
| | | | +--ro frequency-error-critical-min-threshold? decimal64
| | | | +--ro frequency-error-critical-max-threshold? decimal64
| | | | +--ro frequency-error-alert-min-threshold? decimal64
| | | | +--ro frequency-error-alert-max-threshold? decimal64

```

```

| | | +--ro wavelength?                decimal64
| | | +--ro wavelength-tolerance?      decimal64
| | | +--ro wavelength-error?          decimal64
| | | +--ro wavelength-error-critical-min-threshold? decimal64
| | | +--ro wavelength-error-critical-max-threshold? decimal64
| | | +--ro wavelength-error-alert-min-threshold?   decimal64
| | | +--ro wavelength-error-alert-max-threshold?   decimal64
| | | +--ro tx-tune-ready?              boolean
| | | +--ro thermoelectric-cooler-fault?  boolean
| | | +--ro wavelength-locked?           boolean
| | | +--ro transceiver-temperature?     decimal64
| | | +--ro temperature-alert-max-threshold? decimal64
| | | +--ro temperature-critical-max-threshold? decimal64
| | | +--ro temperature-critical-min-threshold? decimal64
| | | +--ro temperature-alert-min-threshold? decimal64
| | | +--ro transceiver-voltage?         decimal64
| | | +--ro voltage-alert-max-threshold?  decimal64
| | | +--ro voltage-critical-max-threshold? decimal64
| | | +--ro voltage-critical-min-threshold? decimal64
| | | +--ro voltage-alert-min-threshold?  decimal64
| | | +--ro module-functional-type?      ipi-platform-transceiver-types:cmm_transceiver_functional_type_t
| | +--ro sfp
| | | +--ro state
| | |   +--ro transmit-status?           ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | |   +--ro receive-loss-status?       ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | |   +--ro sfp-identifier?            ipi-platform-transceiver-types:ddm_cmm_trans_sfp_extended_identifier_t
| | |   +--ro sfp-options-implemented?   ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_options_implemented_t
| | |   +--ro fiber-channel-sfp-speed?   ipi-platform-transceiver-types:ddm_cmm_trans_fiber_channel_speed_t
| | |   +--ro sfp-infiniband-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_infiniband_compliance_t
| | |   +--ro sfp-escon-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_escon_compliance_t
| | |   +--ro sfp-plus-cable-technology? ipi-platform-transceiver-types:ddm_cmm_trans_sfp_plus_cable_tech_t
| | +--ro xfp
| | | +--ro state
| | |   +--ro transmit-status?           ipi-platform-transceiver-types:ddm_tx_rx_state_t

```

```

| | | | +--ro recieve-loss-status?          ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro xsfp-identifier?              ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_extended_identifier_t
| | | | +--ro xfp-10g-ethernet-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_eth_compliance_t
| | | | +--ro xfp-10g-fiber-channel-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_fiber_chn_compliance_t
| | | | +--ro xfp-10g-copper-link-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_copper_links_rsvd_t
| | | | +--ro xfp-lower-speed-link-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_lower_speed_links_t
| | | | +--ro xfp-sonet-interconnect-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_interconnect_t
| | | | +--ro xfp-sonet-short-haul-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_short_haul_t
| | | | +--ro xfp-sonet-long-haul-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_long_haul_t
| | | | +--ro xfp-sonet-very-long-haul-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_very_long_haul_t
| | | | +--ro xfp-serial-encoding-algorithm?        ipi-platform-transceiver-types:ddm_cmm_trans_xfp_encoding_t
| | | | +--ro xsfp-options-implemented?            ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_options_implemented_t
| | | | +--ro xfp-auxillary-voltage?                ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_voltage_aux_monitor_t
| | | +--ro qsfp
| | | | +--ro state
| | | | +--ro reset-status?          ipi-platform-transceiver-types:ddm_cmm_trans_reset_t
| | | | +--ro power?                ipi-platform-transceiver-types:ddm_cmm_trans_power_t
| | | | +--ro lane1-transmission?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane1-transmission-loss?  ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane1-recieve-loss?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane2-transmission?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane2-transmission-loss?  ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane2-recieve-loss?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane3-transmission?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane3-transmission-loss?  ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane3-recieve-loss?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane4-transmission?    ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane4-transmission-loss?  ipi-platform-transceiver-types:ddm_tx_rx_state_t
| | | | +--ro lane4-recieve-loss?    ipi-platform-transceiver-types:ddm_tx_rx_state_t

```

```

| | | +--ro qsfp-identifier?      ipi-platform-transceiver-types:ddm_cmm_qsfp_extended_identifier_t
| | | +--ro fiber-channel-qsfp-speed? ipi-platform-transceiver-types:ddm_cmm_trans_fiber_channel_speed_t
| | | +--ro qsfp-options-implemented? ipi-platform-transceiver-
types:ddm_cmm_trans_qsfp_options_implemented_t
| | +--ro channels
| | | +--ro channel* [index]
| | | +--ro index -> ../state/index
| | | +--ro state
| | | +--ro index?                uint8
| | | +--ro input-power?          decimal64
| | | +--ro input-power-alert-max-threshold? decimal64
| | | +--ro input-power-critical-max-threshold? decimal64
| | | +--ro input-power-critical-min-threshold? decimal64
| | | +--ro input-power-alert-min-threshold? decimal64
| | | +--ro output-power?         decimal64
| | | +--ro output-power-alert-max-threshold? decimal64
| | | +--ro output-power-critical-max-threshold? decimal64
| | | +--ro output-power-critical-min-threshold? decimal64
| | | +--ro output-power-alert-min-threshold? decimal64
| | | +--ro laser-bias-current?   decimal64
| | | +--ro laser-bias-current-alert-max-threshold? decimal64
| | | +--ro laser-bias-current-critical-max-threshold? decimal64
| | | +--ro laser-bias-current-critical-min-threshold? decimal64
| | | +--ro laser-bias-current-alert-min-threshold? decimal64
| | +--ro cmis-module
| | | +--ro eeprom
| | | | +--ro state
| | | | +--ro identifier?        ipi-platform-sff8024-types:cmm_sff8024_identifier_t
| | | | +--ro vendor-name?       string
| | | | +--ro vendor-oui?        string
| | | | +--ro part-number?       string
| | | | +--ro revision-level?    string
| | | | +--ro serial-number?     string
| | | | +--ro manufacturing-date? string
| | | | +--ro clei-code?         string
| | | | +--ro module-power-class? ipi-platform-cmis-types:cmm_cmis_module_power_class_t
| | | | +--ro module-max-power?  decimal64

```

```

| | | | +--ro cooling-implemented?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | +--ro temperature-max?         int16
| | | | +--ro temperature-min?         int16
| | | | +--ro operatin-voltage-min?     decimal64
| | | | +--ro optical-detector?        ipi-platform-cmis-types:cmm_cmis_optical_detector_t
| | | | +--ro rx-power-measurement?     ipi-platform-cmis-types:cmm_cmis_rx_power_measur_t
| | | | +--ro tx-disable-module-wide?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | +--ro cable-assembly-link-length? int16
| | | | +--ro connector-type?          ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
| | | | +--ro cca-5ghz?                uint8
| | | | +--ro cca-7ghz?                uint8
| | | | +--ro cca-12p9ghz?             uint8
| | | | +--ro cca-25p8ghz?             uint8
| | | | +--ro media-interface-technology? ipi-platform-cmis-types:cmm_cmis_media_intf_tech_t
| | | | +--ro cmis-revision?            string
| | | | +--ro ccmis-revision?           string
| | | | +--ro memory-model?             ipi-platform-cmis-types:cmm_cmis_memory_model_t
| | | | +--ro mci-max-speed?            ipi-platform-cmis-types:cmm_cmis_mci_max_speed_t
| | | | +--ro active-firmware-revision? string
| | | | +--ro inactive-firmware-revision? string
| | | | +--ro hardware-revision?        string
| | | | +--ro media-type?               ipi-platform-cmis-types:cmm_cmis_media_type_t
| | | | +--ro max-smf-link-length?      decimal64
| | | | +--ro max-mmfm-om2-link-length? uint8
| | | | +--ro max-mmfm-om3-link-length? uint16
| | | | +--ro max-mmfm-om4-link-length? uint16
| | | | +--ro max-mmfm-om5-link-length? uint16
| | | | +--ro wavelength-nominal?       decimal64
| | | | +--ro wavelength-tolerance?     decimal64
| | | | +--ro rx-los-detection-type?    ipi-platform-cmis-types:cmm_ccmis_rx_los_type_t
| | | | +--ro advertisement
| | | | +--ro applications
| | | | | +--ro application* [id]
| | | | |   +--ro id      -> ../state/id
| | | | |   +--ro state
| | | | | | +--ro id?    uint8

```

```

| | | | | +--ro host
| | | | | | +--ro state
| | | | | | +--ro interface-type?      ipi-platform-cmis-types:cm_m_cmis_interface_type_t
| | | | | | +--ro application-bitrate?   ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | | | +--ro lane-count?            uint8
| | | | | | +--ro signal-bitrate?        ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | | | +--ro modulation-format?     ipi-platform-cmis-types:cm_m_cmis_modulation_format_t
| | | | | | +--ro bits-per-unit-interval? decimal64
| | | | | | +--ro lane-assignment?       ipi-platform-cmis-types:cm_m_cmis_lane_assignment_t
| | | | | | +--ro host-config?           string
| | | | | +--ro media
| | | | |   +--ro state
| | | | |   +--ro interface-type?       ipi-platform-cmis-types:cm_m_cmis_interface_type_t
| | | | |   +--ro application-bitrate?   ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | |   +--ro lane-count?            uint8
| | | | |   +--ro signal-bitrate?        ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | |   +--ro modulation-format?     ipi-platform-cmis-types:cm_m_cmis_modulation_format_t
| | | | |   +--ro bits-per-unit-interval? decimal64
| | | | |   +--ro lane-assignment?       ipi-platform-cmis-types:cm_m_cmis_lane_assignment_t
| | | | | +--ro custom-application
| | | | | | +--ro state
| | | | | | +--ro application-selector?  uint8
| | | | | | +--ro host-ids
| | | | | | +--ro host-id* [id]
| | | | | |   +--ro id      -> ../state/id
| | | | | |   +--ro state
| | | | | |   +--ro id?          uint8
| | | | | |   +--ro interface-type? ipi-platform-cmis-types:cm_m_cmis_interface_type_t
| | | | | |   +--ro application-bitrate? ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | | |   +--ro lane-count?        uint8
| | | | | |   +--ro signal-bitrate?    ipi-platform-cmis-types:cm_m_cmis_bit_rate_t
| | | | | |   +--ro modulation-format? ipi-platform-cmis-types:cm_m_cmis_modulation_format_t
| | | | | |   +--ro bits-per-unit-interval? decimal64
| | | | | |   +--ro lane-assignment?    ipi-platform-cmis-types:cm_m_cmis_lane_assignment_t
| | | | | |   +--ro host-config?        string
| | | | | | +--ro media-ids

```



```
| | | | | +--ro media-id* [id]
| | | | |   +--ro id      -> ../state/id
| | | | |   +--ro state
| | | | |     +--ro id?          uint8
| | | | |     +--ro interface-type?    ipi-platform-cmis-types:cmm_cmis_interface_type_t
| | | | |     +--ro application-bitrate? ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | |     +--ro lane-count?        uint8
| | | | |     +--ro signal-bitrate?    ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | |     +--ro modulation-format? ipi-platform-cmis-types:cmm_cmis_modulation_format_t
| | | | |     +--ro bits-per-unit-interval? decimal64
| | | | |     +--ro lane-assignment?    ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | +--ro controls
| | | | | +--ro state
| | | | |   +--ro wavelength-control?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tunable-transmitter?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tx-output-squelching-method? ipi-platform-cmis-types:cmm_cmis_tx_squelch_method_t
| | | | |   +--ro forced-tx-output-squelching? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tx-output-squelching-disable? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tx-output-disable?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro input-polarity-flip-tx? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro rx-output-squelching-disable? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro rx-output-disable?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro output-polarity-flip-rx? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro rx-media-fed-pm-implemented? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro rx-media-fdd-pm-implemented? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tx-host-fed-pm-implemented? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |   +--ro tx-host-fdd-pm-implemented? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro diagnostics
| | | | | +--ro module
| | | | | | +--ro state
| | | | | | | +--ro simultaneous-host-and-media-loopback? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro report-bit-error-ratio?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro count-bits-and-errors?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro media-side-fec-prbs-error?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro host-side-fec-prbs-error?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro media-side-input-snr-measurement? ipi-platform-cmis-types:cmm_cmis_yes_no_t
```

```

| | | | | +--ro host-side-input-snr-measurement?      ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro gating-support?                      ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro gating-results?                      ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro periodic-updates?                    ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro per-lane-gating-timers?              ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro gating-auto-restart?                 ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro host
| | | | | +--ro state
| | | | | +--ro output-loopack?                      ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro input-loopack?                       ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro per-lane-loopack?                     ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro report-input-snr?                     ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro report-fec?                           ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-post-fec?               ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-pre-fec?                 ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-types?                   ipi-platform-cmis-types:cm_m_cmis_prbs_support_type_t
| | | | | +--ro prbs-generator-post-fec?              ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-generator-pre-fec?               ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-generator-types?                 ipi-platform-cmis-types:cm_m_cmis_prbs_support_type_t
| | | | | +--ro media
| | | | | +--ro state
| | | | | +--ro output-loopack?                      ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro input-loopack?                       ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro per-lane-loopack?                     ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro report-input-snr?                     ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro report-fec?                           ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-post-fec?               ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-pre-fec?                 ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-checker-types?                   ipi-platform-cmis-types:cm_m_cmis_prbs_support_type_t
| | | | | +--ro prbs-generator-post-fec?              ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-generator-pre-fec?               ipi-platform-cmis-types:cm_m_cmis_yes_no_t
| | | | | +--ro prbs-generator-types?                 ipi-platform-cmis-types:cm_m_cmis_prbs_support_type_t
| | | | | +--ro durations
| | | | | +--ro state
| | | | | +--ro modsel-wait-time?                      uint32
| | | | | +--ro dpinit-maximun-duration?              ipi-platform-cmis-types:cm_m_cmis_durations_t

```

```
| | | | | +--ro dpdeinit-maximun-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro dptxturnon-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro dptxturnoff-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro modulepwrup-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro modulepwrdown-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro npinit-maximum-duration?      ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro npdeinit-maximum-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro nptxturnon-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro nptxturnoff-maximum-duration? ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro laser
| | | | | +--ro state
| | | | | | +--ro supported-grids?            ipi-platform-cmis-types:cmm_cmis_laser_grid_support_t
| | | | | | +--ro fine-tune-supported?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | +--ro fine-tune-resolution?      decimal64
| | | | | | +--ro fine-tune-low-offset?      decimal64
| | | | | | +--ro fine-tune-high-offset?     decimal64
| | | | | | +--ro per-lane-programmable-output-power? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | +--ro minimum-programmable-output-power? decimal64
| | | | | | +--ro maximum-programmable-output-power? decimal64
| | | | | +--ro grids
| | | | | | +--ro grid* [id]
| | | | | | | +--ro id    -> ../state/id
| | | | | | | +--ro state
| | | | | | | | +--ro id?          ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
| | | | | | | | +--ro lowest-channel-frequency? decimal64
| | | | | | | | +--ro highest-channel-frequency? decimal64
| | | | | | | | +--ro channel-count?   uint16
| | | | | +--ro monitoring
| | | | | +--ro module
| | | | | | +--ro monitors
| | | | | | | +--ro monitor* [id]
| | | | | | | | +--ro id    -> ../state/id
| | | | | | | | +--ro state
| | | | | | | | | +--ro id?      ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| | | | | | | | | +--ro supported? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro host
```

```

| | | | | +--ro monitors
| | | | | | +--ro monitor* [id]
| | | | | | | +--ro id    -> ../state/id
| | | | | | | +--ro state
| | | | | | | | +--ro id?      ipi-platform-cmis-types:comm_cmis_host_monitor_id_t
| | | | | | | | +--ro supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | | +--ro lanes-assigned? ipi-platform-cmis-types:comm_cmis_lane_assignment_t
| | | | | | +--ro flags
| | | | | | | +--ro flag* [id]
| | | | | | | +--ro id    -> ../state/id
| | | | | | | +--ro state
| | | | | | | | +--ro id?      ipi-platform-cmis-types:comm_cmis_host_flag_id_t
| | | | | | | | +--ro supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | | +--ro lanes-assigned? ipi-platform-cmis-types:comm_cmis_lane_assignment_t
| | | | | | +--ro media
| | | | | | | +--ro monitors
| | | | | | | | +--ro monitor* [id]
| | | | | | | | +--ro id    -> ../state/id
| | | | | | | | +--ro state
| | | | | | | | | +--ro id?      ipi-platform-cmis-types:comm_cmis_media_monitor_id_t
| | | | | | | | | +--ro supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | | | +--ro lanes-assigned? ipi-platform-cmis-types:comm_cmis_lane_assignment_t
| | | | | | | +--ro flags
| | | | | | | | +--ro flag* [id]
| | | | | | | | +--ro id    -> ../state/id
| | | | | | | | +--ro state
| | | | | | | | | +--ro id?      ipi-platform-cmis-types:comm_cmis_media_flag_id_t
| | | | | | | | | +--ro supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | | | +--ro lanes-assigned? ipi-platform-cmis-types:comm_cmis_lane_assignment_t
| | | | | +--ro pages
| | | | | | +--ro state
| | | | | | | +--ro network-path-pages-supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | +--ro vdm-pages-supported?          ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | +--ro vdm-groups?                  ipi-platform-cmis-types:comm_cmis_vdm_pages_support_t
| | | | | | | +--ro diagnostics-pages-supported? ipi-platform-cmis-types:comm_cmis_yes_no_t
| | | | | | | +--ro user-page-supported?          ipi-platform-cmis-types:comm_cmis_yes_no_t

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```

| | | | | +--ro banks-per-page?      ipi-platform-cmis-types:cmm_cmis_bank_per_page_support_t
| | | | | +--ro signal-integrity
| | | | | +--ro state
| | | | | +--ro tx-input-manual-eq?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro tx-input-eq-max?      uint8
| | | | | +--ro rx-output-eq-pre-cursor? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro rx-output-eq-pre-cursor-max? uint8
| | | | | +--ro rx-output-eq-post-cursor? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro rx-output-eq-post-cursor-max? uint8
| | | | | +--ro rx-output-amp?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro rx-output-amp-codes?   ipi-platform-cmis-types:cmm_cmis_si_amp_codes_t
| | | | | +--ro tx-cdr?                ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro tx-cdr-bypass?         ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro rx-cdr?                ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro rx-cdr-bypass?         ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | +--ro module-state
| | | | | +--ro state
| | | | | +--ro fault-state?   ipi-platform-cmis-types:cmm_cmis_module_fault_state_t
| | | | | +--ro current-state? ipi-platform-cmis-types:cmm_cmis_module_state_t
| | | | | +--ro datapaths
| | | | | +--ro datapath* [lane]
| | | | | +--ro lane    -> ../state/lane
| | | | | +--ro state
| | | | | +--ro lane?      uint8
| | | | | +--ro current-state? ipi-platform-cmis-types:cmm_cmis_datapath_states_t
| | | | | +--ro host-rate?   decimal64
| | | | | +--ro media-rate?  decimal64
| | | | | +--ro interface-name? string
| | | | +--ro module-monitors
| | | | | +--ro monitors
| | | | | +--ro monitor* [id]
| | | | | +--ro id    -> ../state/id
| | | | | +--ro state
| | | | | +--ro id?      ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| | | | | +--ro description? string
| | | | | +--ro value?    decimal64

```

```

| | | | | +--ro high-alarm?    decimal64
| | | | | +--ro high-warning?  decimal64
| | | | | +--ro low-warning?   decimal64
| | | | | +--ro low-alarm?    decimal64
| | | | | +--ro monitor-alarm
| | | | | +--ro state
| | | | | +--ro alarm-id?      ipi-platform-cmis-types:cmmm_cmis_module_monitor_id_t
| | | | | +--ro alarm-type?    ipi-platform-cmis-types:cmmm_cmis_threshold_alarm_t
| | | | | +--ro current-value?  decimal64
| | | | | +--ro threshold-minimum? decimal64
| | | | | +--ro threshold-maximum? decimal64
| | | | +--ro host-monitors
| | | | | +--ro lanes
| | | | | +--ro lane* [number]
| | | | | +--ro number        -> ../state/number
| | | | | +--ro state
| | | | | | +--ro number?      uint8
| | | | | | +--ro dp-assigned? boolean
| | | | | +--ro monitors
| | | | | | +--ro monitor* [id]
| | | | | | +--ro id         -> ../state/id
| | | | | | +--ro state
| | | | | | +--ro id?        ipi-platform-cmis-types:cmmm_cmis_host_monitor_id_t
| | | | | | +--ro description? string
| | | | | | +--ro value?     decimal64
| | | | | | +--ro high-alarm? decimal64
| | | | | | +--ro high-warning? decimal64
| | | | | | +--ro low-warning? decimal64
| | | | | | +--ro low-alarm?  decimal64
| | | | | +--ro flags
| | | | | | +--ro flag* [id]
| | | | | | +--ro id         -> ../state/id
| | | | | | +--ro state
| | | | | | +--ro id?        ipi-platform-cmis-types:cmmm_cmis_host_flag_id_t
| | | | | | +--ro description? string
| | | | | | +--ro value?     boolean

```

```
| | | | +--ro monitor-alarm
| | | | | +--ro state
| | | | | +--ro alarm-id?      ipi-platform-cmis-types:cmmm_cmis_host_monitor_id_t
| | | | | +--ro alarm-type?    ipi-platform-cmis-types:cmmm_cmis_threshold_alarm_t
| | | | | +--ro current-value?  decimal64
| | | | | +--ro threshold-minimum? decimal64
| | | | | +--ro threshold-maximum? decimal64
| | | | +--ro flag-alarm
| | | | +--ro state
| | | | +--ro alarm-id? ipi-platform-cmis-types:cmmm_cmis_host_flag_id_t
| | | +--ro media-monitors
| | | | +--ro lanes
| | | | +--ro lane* [number]
| | | | +--ro number      -> ../state/number
| | | | +--ro state
| | | | | +--ro number?  uint8
| | | | +--ro monitors
| | | | | +--ro monitor* [id]
| | | | | +--ro id      -> ../state/id
| | | | | +--ro state
| | | | | +--ro id?      ipi-platform-cmis-types:cmmm_cmis_media_monitor_id_t
| | | | | +--ro description? string
| | | | | +--ro value?    decimal64
| | | | | +--ro high-alarm? decimal64
| | | | | +--ro high-warning? decimal64
| | | | | +--ro low-warning? decimal64
| | | | | +--ro low-alarm? decimal64
| | | | +--ro flags
| | | | | +--ro flag* [id]
| | | | | +--ro id      -> ../state/id
| | | | | +--ro state
| | | | | +--ro id?      ipi-platform-cmis-types:cmmm_cmis_media_flag_id_t
| | | | | +--ro description? string
| | | | | +--ro value?    boolean
| | | | +--ro monitor-alarm
| | | | | +--ro state
```

```

| | | | | | +--ro alarm-id?      ipi-platform-cmis-types:cm_mis_media_monitor_id_t
| | | | | | +--ro alarm-type?    ipi-platform-cmis-types:cm_mis_threshold_alarm_t
| | | | | | +--ro current-value?  decimal64
| | | | | | +--ro threshold-minimum? decimal64
| | | | | | +--ro threshold-maximum? decimal64
| | | | | | +--ro flag-alarm
| | | | | | +--ro state
| | | | | | +--ro alarm-id? ipi-platform-cmis-types:cm_mis_media_flag_id_t
| | | | +--ro user-thresholds
| | | | +--ro host
| | | | | +--ro lanes
| | | | | | +--ro lane* [number]
| | | | | | +--ro number    -> ../state/number
| | | | | | +--ro state
| | | | | | | +--ro number? uint8
| | | | | | +--ro thresholds
| | | | | | | +--ro threshold* [id]
| | | | | | | +--ro id      -> ../state/id
| | | | | | | +--ro state
| | | | | | | +--ro id?     ipi-platform-cmis-types:cm_mis_thres_state_host_id_t
| | | | | | | +--ro value?  decimal64
| | | | | | | +--ro minimum? decimal64
| | | | | | | +--ro maximum? decimal64
| | | | | | | +--ro active?  boolean
| | | | | +--ro media
| | | | | +--ro lanes
| | | | | | +--ro lane* [number]
| | | | | | +--ro number    -> ../state/number
| | | | | | +--ro state
| | | | | | | +--ro number? uint8
| | | | | | +--ro thresholds
| | | | | | | +--ro threshold* [id]
| | | | | | | +--ro id      -> ../state/id
| | | | | | | +--ro state
| | | | | | | +--ro id?     ipi-platform-cmis-types:cm_mis_thres_state_media_id_t
| | | | | | | +--ro value?  decimal64

```

```

| | | |      +--ro minimum?  decimal64
| | | |      +--ro maximum?  decimal64
| | | |      +--ro active?   boolean
| | | | +--ro signal-integrity
| | | | | +--ro host
| | | | | +--ro lanes
| | | | | +--ro lane* [number]
| | | | | +--ro number  -> ../state/number
| | | | | +--ro state
| | | | | +--ro number?           uint8
| | | | | +--ro tx-input-equalizer-target?   uint8
| | | | | +--ro rx-output-equalizer-pre-cursor-target?  uint8
| | | | | +--ro rx-output-equalizer-post-cursor-target? uint8
| | | | | +--ro rx-output-amplitude-target?    uint8
| | | | | +--ro tx-cdr-bypass?                boolean
| | | | | +--ro rx-cdr-bypass?                boolean
| | | | +--ro laser-status
| | | | +--ro media
| | | | +--ro lanes
| | | | +--ro lane* [number]
| | | | +--ro number  -> ../state/number
| | | | +--ro state
| | | | +--ro number?           uint8
| | | | +--ro laser-frequency?  decimal64
| | | | +--ro wavelength?      decimal64
| | | +--ro tibit-olt-microplug
| | | +--ro state
| | | | +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
| | | | +--ro warranty-seal?        ipi-platform-transceiver-tibit-types:trans_tibit_cmm_warranty_seal_t
| | | | +--ro operational-management?  ipi-platform-transceiver-tibit-types:trans_tibit_cmm_oper_mode_t
| | | | +--ro pon-mode?            ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_mode_t
| | | | +--ro active-firmware-bank-id?  uint8
| | | | +--ro next-active-firmware-bank-id?  uint8
| | | | +--ro management-vlan-tpid?    string
| | | | +--ro management-vlan-id?      uint16
| | | | +--ro pon-mac-address?        string

```

```

| | | | +--ro ethernet-mac-address?      string
| | | | +--ro pon-port-administrative-state? ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_status_t
| | | | +--ro pon-port-operational-status? ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_status_t
| | | | +--ro pon-link-count?            uint16
| | | +--ro firmware-banks
| | |   +--ro bank* [bank-id]
| | |     +--ro bank-id  -> ../state/bank-id
| | |     +--ro state
| | |       +--ro bank-id?      uint8
| | |       +--ro release-type?  string
| | |       +--ro major-version? uint8
| | |       +--ro minor-version? uint8
| | |       +--ro maintenance-version? uint8
| | |       +--ro suffix-build-tag? ipi-platform-transceiver-tibit-types:trans_tibit_cmm_string_t
| | |       +--ro suffix-build-number? uint16
| | |       +--ro build-sha?      ipi-platform-transceiver-tibit-types:trans_tibit_cmm_string_t
| | |       +--ro application-type? ipi-platform-transceiver-tibit-types:trans_tibit_cmm_application_type_t
| | |       +--ro created-timestamp? yang:date-and-time
| | |       +--ro updated-timestamp? yang:date-and-time
| | +--ro power-supply
| | | +--ro state
| | |   +--ro operational-status?      cml_cmm_power_supply_operstatus_t
| | |   +--ro hot-swap-state?          ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro capacity?                decimal64
| | |   +--ro power-consumption?       decimal64
| | |   +--ro input-power?             decimal64
| | |   +--ro input-voltage?           decimal64
| | |   +--ro output-voltage?          decimal64
| | |   +--ro input-current?           decimal64
| | |   +--ro output-current?          decimal64
| | |   +--ro temperature-sensor1?     decimal64
| | |   +--ro temperature-sensor2?     decimal64
| | |   +--ro temperature-sensor3?     decimal64
| | |   +--ro temperature-sensor4?     decimal64
| | |   +--ro fan1-rpm?                uint32
| | |   +--ro fan2-rpm?                uint32

```

```

| | | +--ro fan3-rpm?          uint32
| | | +--ro fan4-rpm?          uint32
| | | +--ro input-power-status? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro output-power-status? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro supported-parameters? cml_cmm_psu_pmbus_param_support_t
| | | +--ro vin-alert-threshold-min? decimal64
| | | +--ro vin-alert-threshold-max? decimal64
| | | +--ro vin-critical-threshold-min? decimal64
| | | +--ro vin-critical-threshold-max? decimal64
| | | +--ro vout-alert-threshold-min? decimal64
| | | +--ro vout-alert-threshold-max? decimal64
| | | +--ro vout-critical-threshold-min? decimal64
| | | +--ro vout-critical-threshold-max? decimal64
| | | +--ro pout-alert-threshold-min? decimal64
| | | +--ro pout-alert-threshold-max? decimal64
| | | +--ro pout-critical-threshold-min? decimal64
| | | +--ro pout-critical-threshold-max? decimal64
| | | +--ro pin-alert-threshold-min? decimal64
| | | +--ro pin-alert-threshold-max? decimal64
| | | +--ro pin-critical-threshold-min? decimal64
| | | +--ro pin-critical-threshold-max? decimal64
| | | +--ro iin-alert-threshold-min? decimal64
| | | +--ro iin-alert-threshold-max? decimal64
| | | +--ro iin-critical-threshold-min? decimal64
| | | +--ro iin-critical-threshold-max? decimal64
| | | +--ro iout-alert-threshold-min? decimal64
| | | +--ro iout-alert-threshold-max? decimal64
| | | +--ro iout-critical-threshold-min? decimal64
| | | +--ro iout-critical-threshold-max? decimal64
| | | +--ro temp1-alert-threshold-min? decimal64
| | | +--ro temp1-alert-threshold-max? decimal64
| | | +--ro temp1-critical-threshold-min? decimal64
| | | +--ro temp1-critical-threshold-max? decimal64
| | | +--ro temp2-alert-threshold-min? decimal64
| | | +--ro temp2-alert-threshold-max? decimal64
| | | +--ro temp2-critical-threshold-min? decimal64

```

```
| | | +--ro temp2-critical-threshold-max? decimal64
| | | +--ro temp3-alert-threshold-min? decimal64
| | | +--ro temp3-alert-threshold-max? decimal64
| | | +--ro temp3-critical-threshold-min? decimal64
| | | +--ro temp3-critical-threshold-max? decimal64
| | | +--ro temp4-alert-threshold-min? decimal64
| | | +--ro temp4-alert-threshold-max? decimal64
| | | +--ro temp4-critical-threshold-min? decimal64
| | | +--ro temp4-critical-threshold-max? decimal64
| | | +--ro vin-hw-shut-max-threshold? decimal64
| | | +--ro vin-hw-shut-min-threshold? decimal64
| | | +--ro vin-hw-resume_max_threshold? decimal64
| | | +--ro vin-hw-resume_min_threshold? decimal64
| | | +--ro vout-hw-shut-max-threshold? decimal64
| | | +--ro vout-hw-shut-min-threshold? decimal64
| | | +--ro vout-hw-resume_max_threshold? decimal64
| | | +--ro vout-hw-resume_min_threshold? decimal64
| | | +--ro pin-hw-shut-max-threshold? decimal64
| | | +--ro pin-hw-shut-min-threshold? decimal64
| | | +--ro pin-hw-resume_max_threshold? decimal64
| | | +--ro pin-hw-resume_min_threshold? decimal64
| | | +--ro pout-hw-shut-max-threshold? decimal64
| | | +--ro pout-hw-shut-min-threshold? decimal64
| | | +--ro pout-hw-resume_max_threshold? decimal64
| | | +--ro pout-hw-resume_min_threshold? decimal64
| | | +--ro iin-hw-shut-max-threshold? decimal64
| | | +--ro iin-hw-shut-min-threshold? decimal64
| | | +--ro iin-hw-resume_max_threshold? decimal64
| | | +--ro iin-hw-resume_min_threshold? decimal64
| | | +--ro iout-hw-shut-max-threshold? decimal64
| | | +--ro iout-hw-shut-min-threshold? decimal64
| | | +--ro iout-hw-resume_max_threshold? decimal64
| | | +--ro iout-hw-resume_min_threshold? decimal64
| | | +--ro temp1-hw-shut-max-threshold? decimal64
| | | +--ro temp1-hw-shut-min-threshold? decimal64
| | | +--ro temp1-hw-resume_max_threshold? decimal64
```

```

| | | +--ro temp1-hw-resume_min_threshold? decimal64
| | | +--ro temp2-hw-shut-max-threshold?  decimal64
| | | +--ro temp2-hw-shut-min-threshold?  decimal64
| | | +--ro temp2-hw-resume_max_threshold? decimal64
| | | +--ro temp2-hw-resume_min_threshold? decimal64
| | | +--ro temp3-hw-shut-max-threshold?  decimal64
| | | +--ro temp3-hw-shut-min-threshold?  decimal64
| | | +--ro temp3-hw-resume_max_threshold? decimal64
| | | +--ro temp3-hw-resume_min_threshold? decimal64
| | | +--ro temp4-hw-shut-max-threshold?  decimal64
| | | +--ro temp4-hw-shut-min-threshold?  decimal64
| | | +--ro temp4-hw-resume_max_threshold? decimal64
| | | +--ro temp4-hw-resume_min_threshold? decimal64
| | +--ro fan
| | | +--ro state
| | | +--ro fan-index?  uint8
| | | +--ro rpm?        uint32
| | | +--ro minimum-rpm? uint32
| | | +--ro maximum-rpm? uint32
| | | +--ro fan-status?  cml_cmm_fan_status_t
| | | +--ro fan-location? cml_cmm_fan_location_t
| | +--ro fan-tray
| | | +--ro state
| | | +--ro tray-number? uint8
| | | +--ro status?      cml_cmm_fan_tray_status_t
| | | +--ro led-color?   cml_cmm_led_color_code_t
| | | +--ro fan-count?   uint32
| | +--ro chassis
| | | +--ro state
| | | +--ro up-time?      yang:timeticks
| | | +--ro mac-address?  yang:mac-address
| | | +--ro label-revision? string
| | | +--ro country-code?  string
| | | +--ro fan-tray-count? uint32
| | | +--ro power-supplies-count? uint32
| | | +--ro chassis-fast-ethernet-count? uint32

```

```

| | | +--ro chassis-1g-ethernet-count?    uint32
| | | +--ro chassis-10g-ethernet-count?   uint32
| | | +--ro chassis-25g-ethernet-count?   uint32
| | | +--ro chassis-40g-ethernet-count?   uint32
| | | +--ro chassis-50g-ethernet-count?   uint32
| | | +--ro chassis-100g-ethernet-count?  uint32
| | | +--ro chassis-400g-ethernet-count?  uint32
| | | +--ro service-tag?                  string
| | | +--ro platform-name?                string
| | | +--ro onie-version?                 string
| | | +--ro vendor-name?                  string
| | | +--ro diagnostic-version?           string
| | | +--ro cyclic-redundancy-32bit-value? string
| | | +--ro switch-chip-revision?         string
| | | +--ro fan-board-id?                 string
| | | +--ro supported-label-revision?     string
| | | +--ro supported-switch-chip-revision? string
| | | +--ro system_status?                ipi-platform-types:platform_system_status_type_t
| | | +--ro cpu_status?                   ipi-platform-types:platform_system_status_type_t
| | | +--ro ram_status?                   ipi-platform-types:platform_system_status_type_t
| | | +--ro storage_status?               ipi-platform-types:platform_system_status_type_t
| | | +--ro temperature_status?           ipi-platform-types:platform_system_status_type_t
| | | +--ro fan_status?                   ipi-platform-types:platform_system_status_type_t
| | | +--ro psu_status?                   ipi-platform-types:platform_system_status_type_t
| | | +--ro software_status?              ipi-platform-types:platform_system_status_type_t
| | +--ro linecard
| | | +--ro state
| | |   +--ro slot-id? string
| | +--ro power-rail
| | | +--ro state
| | |   +--ro power-vddr-status?          ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro power-core-status?          ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro v1p1-power-rail?           ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro main-board-power-rail?      ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro vcc-5v-power-status?        ipi-platform-types:cml_cmm_power_rail_t
| | |   +--ro vcc-3v-power-status?        ipi-platform-types:cml_cmm_power_rail_t

```

```

| | | +--ro vcc-1v-mac-power-status?      ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vcc-1v-mac-avs-power-status?   ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vccv1p05-power-status?         ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vccv1p5-power-status?          ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vccv1p8-power-status?          ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p05-power-rail?              ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vcc-power-rail?                ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro sbv1p5-power-rail?             ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p0-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p5-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v3p3-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p8-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p9-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v1p35-power-rail?              ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vcc-avs-1v-power-status?       ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro ddrvt-power-status?            ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro vcc-mac-v1p25-power-status?    ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro mac-v1p8-power-status?         ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-1-power-status?    ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-2-power-status?    ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-1-power-rail?     ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-2-power-rail?     ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-1-v12-power-rail? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-2-v12-power-rail? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-1-ac-alert-power-rail? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-supply-2-ac-alert-power-rail? ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro power-vccp-status?              ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v5a-power-rail?                 ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro v3p3a-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro hot-swap-1-power-rail?          ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro hot-swap-2-power-rail?          ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro xp0r-v75-power-rail?            ipi-platform-types:cml_cmm_power_rail_t
| | | +--ro xp1r-v07-cp-power-rail?        ipi-platform-types:cml_cmm_power_rail_t
| | +--ro ceragon
| | | +--ro cpld-attr
| | | | +--ro state

```

```

| | | +--ro usb-over-current-status?  uint8
| | | +--ro loss-of-input-clock-status? uint8
| | | +--ro poe
| | | +--ro state
| | |   +--ro port-index?  uint8
| | |   +--ro port-name?   string
| | |   +--ro port-state?  ipi-platform-ceragon-types:cmm_poe_port_status_t
| | +--ro edfas
| | | +--ro edfa* [port]
| | |   +--ro port      -> ../state/port
| | |   +--ro state
| | |     | +--ro port?  uint8
| | |     +--ro monitors
| | |       | +--ro monitor* [id]
| | |       |   +--ro id    -> ../state/id
| | |       |   +--ro state
| | |       |     +--ro id?      ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| | |       |     +--ro description? string
| | |       |     +--ro value?    decimal64
| | |       |     +--ro high-alarm? decimal64
| | |       |     +--ro high-warning? decimal64
| | |       |     +--ro low-warning? decimal64
| | |       |     +--ro low-alarm? decimal64
| | |       +--ro monitor-alarm
| | |       +--ro state
| | |         +--ro alarm-id?      ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| | |         +--ro alarm-type?    ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
| | |         +--ro current-value? decimal64
| | |         +--ro threshold-minimum? decimal64
| | |         +--ro threshold-maximum? decimal64
| | +--ro remote-sfps
| | | +--ro remote-sfp* [port]
| | |   +--ro port      -> ../state/port
| | |   +--ro state
| | |     | +--ro port?  uint8
| | |     +--ro eeprom

```

```
| | | +--ro state
| | | +--ro identifier? ipi-platform-transceiver-types:ddm_cmm_trans_identifier_t
| | | +--ro sfp-extended-identifier? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_extended_identifier_t
| | | +--ro connector-type? ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
| | | +--ro ethernet-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_eth_compliance_t
| | | +--ro extended-ethernet-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_ext_eth_compliance_t
| | | +--ro sonet-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_sonet_compliance_t
| | | +--ro fiber-channel-link-length? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_linklen_t
| | | +--ro fiber-channel-transmission-technology? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmittech_t
| | | +--ro fiber-channel-transmission-media? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmitmedia_t
| | | +--ro fiber-channel-sfp-speed? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_speed_t
| | | +--ro sfp-infiniband-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_infiniband_compliance_t
| | | +--ro sfp-escon-compliance-code? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_escon_compliance_t
| | | +--ro sfp-plus-cable-technology? ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_plus_cable_tech_t
| | | +--ro serial-encoding-algorithm? ipi-platform-transceiver-types:ddm_cmm_trans_encoding_t
| | | +--ro link-length-kilometer? int32
| | | +--ro link-length-meter? int32
| | | +--ro om1-link-length? int32
| | | +--ro om2-link-length? int32
| | | +--ro om3-link-length? int32
| | | +--ro om4-link-length? int32
| | | +--ro vendor-name? string
| | | +--ro vendor-ieee-id? string
| | | +--ro vendor-part-number? string
| | | +--ro vendor-revision-number? string
| | | +--ro check-code? string
| | | +--ro extended-check-code? string
| | | +--ro nominal-signalling-rate? int32
| | | +--ro maximum-signalling-rate? int32
```

```

| | | +--ro minimum-signalling-rate?      int32
| | | +--ro vendor-serial-number?         string
| | | +--ro vendor-manufacturing-date?    string
| | | +--ro ddm-type?                     ipi-platform-transceiver-types:ddm_cmm_trans_ddm_support_t
| | | +--ro maximum-case-temperature?     decimal64
| | | +--ro sfp-options-implemented?      ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_options_implemented_t
| | +--ro monitors
| | | +--ro monitor* [id]
| | | | +--ro id      -> ../state/id
| | | | +--ro state
| | | | | +--ro id?      ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
| | | | | +--ro description? string
| | | | | +--ro value?    decimal64
| | | | | +--ro high-alarm? decimal64
| | | | | +--ro high-warning? decimal64
| | | | | +--ro low-warning? decimal64
| | | | | +--ro low-alarm? decimal64
| | | +--ro monitor-alarm
| | | | +--ro state
| | | | | +--ro alarm-id?      ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
| | | | | +--ro alarm-type?    ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
| | | | | +--ro current-value? decimal64
| | | | | +--ro threshold-minimum? decimal64
| | | | | +--ro threshold-maximum? decimal64
| | +--ro protocol
| | | +--ro state
| | | | +--ro protocol-running-state? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_running_state_t
| | | | +--ro protocol-local-status? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
| | | | +--ro protocol-remote-status? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
| | | | +--ro packets-rx?        int32
| | | | +--ro packets-tx?        int32
| | | | +--ro packets-error?     int32
| | | +--ro alarm
| | | | +--ro state
| | | | | +--ro alarm-id?      ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
| | | | | +--ro current-status? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t

```

```

| +--rw debug
| | +--rw config
| | | +--rw enable-cmm? empty
| | | +--rw enable-ddm? empty {feature-list:NOT_HAVE_TIBIT}?
| | +--ro state
| | | +--ro enable-cmm? empty
| | | +--ro enable-ddm? empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro terminal-debug-status-cmm? cml-data-types:cml_on_off_t
| | | +--ro terminal-debug-status-ddm? cml-data-types:cml_on_off_t {feature-list:NOT_HAVE_TIBIT}?
| +--rw global
| | +--rw config
| | | +--rw warning-repeat? empty
| | | +--rw locator-led-enable? empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--rw ddm-monitor-time-interval? uint16 {feature-list:NOT_HAVE_TIBIT}?
| | | +--rw cpu-core-usage-monitor-interval? uint16 {feature-list:NOT_HAVE_TIBIT}?
| | | +--rw enable-ddm-monitor? empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--rw gps-satellite? ipi-platform-types:gps_satellite_system_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | +--ro state
| | | +--ro warning-repeat? empty
| | | +--ro locator-led-enable? empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro ddm-monitor-time-interval? uint16 {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro cpu-core-usage-monitor-interval? uint16 {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro enable-ddm-monitor? empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro gps-satellite? ipi-platform-types:gps_satellite_system_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | +--rw system-load-average-thresholds
| | | +--rw system-load-average-threshold* [system-1min-load-avg-warning-threshold system-1min-load-avg-alarm
system-5min-load-avg-alarm system-15min-load-avg-alarm]
| | | | +--rw system-1min-load-avg-warning-threshold -> ../config/system-1min-load-avg-warning-threshold
| | | | +--rw system-1min-load-avg-alarm -> ../config/system-1min-load-avg-alarm
| | | | +--rw system-5min-load-avg-alarm -> ../config/system-5min-load-avg-alarm
| | | | +--rw system-15min-load-avg-alarm -> ../config/system-15min-load-avg-alarm
| | | +--rw config
| | | | +--rw system-1min-load-avg-warning-threshold? uint8
| | | | +--rw system-1min-load-avg-alarm? uint8
| | | | +--rw system-5min-load-avg-alarm? uint8

```

```

| | | | +--rw system-15min-load-avg-alarm?      uint8
| | |   +--ro state
| | |     +--ro system-1min-load-avg-warning-threshold?  uint8
| | |     +--ro system-1min-load-avg-alarm?      uint8
| | |     +--ro system-5min-load-avg-alarm?      uint8
| | |     +--ro system-15min-load-avg-alarm?     uint8
| |   +--rw cpu-core-usage-thresholds
| | | +--rw cpu-core-usage-threshold* [warning-threshold alarm-threshold]
| | |   +--rw warning-threshold  -> ../config/warning-threshold
| | |   +--rw alarm-threshold    -> ../config/alarm-threshold
| | |   +--rw config
| | | | +--rw warning-threshold?  uint8
| | | | +--rw alarm-threshold?   uint8
| | |   +--ro state
| | |     +--ro warning-threshold?  uint8
| | |     +--ro alarm-threshold?   uint8
| | +--rw gps-position {feature-list:HAVE_PTP_HW_OFFLOAD}?
| | | +--rw config
| | | | +--rw (gps-position-option)?
| | | | | +--:(gps-position-disable)
| | | | | | +--rw gps-position-disable?      empty
| | | | | +--:(gps-survey-in-observation-time)
| | | | | | +--rw gps-survey-in-observation-time?  uint32
| | | | | | +--rw gps-survey-in-position-accuracy? uint32
| | | | | +--:(gps-fixed-latitude)
| | | | | | +--rw gps-fixed-latitude?          decimal64
| | | | | | +--rw gps-fixed-longitude?         decimal64
| | | | | | +--rw gps-fixed-altitude?          decimal64
| | | | +--ro state
| | |   +--ro (gps-position-option)?
| | |   | +--:(gps-position-disable)
| | |   | | +--ro gps-position-disable?      empty
| | |   | +--:(gps-survey-in-observation-time)
| | |   | | +--ro gps-survey-in-observation-time?  uint32
| | |   | | +--ro gps-survey-in-position-accuracy? uint32
| | |   +--:(gps-fixed-latitude)

```

```

| | |      +--ro gps-fixed-latitude?      decimal64
| | |      +--ro gps-fixed-longitude?     decimal64
| | |      +--ro gps-fixed-altitude?      decimal64
| | +--ro gps {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | | +--ro gnss-status
| | | | +--ro state
| | | | | +--ro gnss-fix?  string
| | | | | +--ro latitude?  string
| | | | | +--ro longitude? string
| | | | | +--ro altitude?  string
| | | | +--ro gnss-satellites-status
| | | | | +--ro gnss-satellite-status* [sat-index]
| | | | | +--ro sat-index  -> ../state/sat-index
| | | | | +--ro state
| | | | | | +--ro sat-index? uint8
| | | | | | +--ro type?     string
| | | | | | +--ro prn?      string
| | | | | | +--ro snr?      string
| | | | | | +--ro status?   ipi-platform-types:cml_gps_gnss_status_t
| | | | | | +--ro azimuth?  string
| | | | | | +--ro elevation? string
| | | +--ro gnss-survey-in-status
| | | | +--ro state
| | | | | +--ro min-duration? string
| | | | | +--ro accuracy?     string
| | | | | +--ro is-valid?     boolean
| | | | | +--ro is-active?    boolean
| | | | | +--ro duration?     string
| | | | | +--ro variance?     string
| | | +--ro gnss-fix-position-status
| | | | +--ro state
| | | | | +--ro latitude?  string
| | | | | +--ro longitude? string
| | | | | +--ro altitude?  string
| | +--ro dpll {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | | +--ro dpll-status

```

```

| | | +--ro state
| | |   +--ro dppll-output-1pps-squelch?   ipi-platform-types:cml_dppll_output_t
| | |   +--ro dppll-output-10mhz-squelch?   ipi-platform-types:cml_dppll_output_t
| | |   +--ro dppll-input-frequency-alarm?   ipi-platform-types:cml_dppll_output_t
| | | +--ro dppll-entries-status
| | |   +--ro dppll-entry-status* [dppll-index]
| | |     +--ro dppll-index   -> ../state/dppll-index
| | |   +--ro state
| | |     +--ro dppll-index?      uint8
| | |     +--ro dppll-input?      string
| | |     +--ro dppll-valid?      boolean
| | |     +--ro dppll-conf-mode?   string
| | |     +--ro dppll-actual-mode? string
| +--rw interfaces {feature-list:NOT_HAVE_TIBIT}?
| | +--rw interface* [interface-name]
| | | +--rw interface-name   -> ../config/interface-name
| | | +--rw config
| | | | +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
| | | | +--rw monitor-port?      ipi-platform-types:cmm_monitor_state
| | | | +--rw poe-enable?        empty
| | | | +--rw transceiver-code?   ipi-platform-transceiver-types:ddm_transceiver_t
| | | | +--rw wavelength?        ipi-platform-types:cml_wavelength_t
| | | | +--rw tx-disable?        empty
| | | | +--rw edfa-operating-mode? ipi-platform-types:edfa_operating_mode_t
| | | | +--rw edfa-target-output-power? decimal64
| | | | +--rw edfa-target-gain?   decimal64
| | | | +--rw tx-cdr-bypass?      empty
| | | | +--rw rx-cdr-bypass?      empty
| | | +--ro state
| | |   +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
| | |   +--ro monitor-port?       ipi-platform-types:cmm_monitor_state
| | |   +--ro poe-enable?         empty
| | |   +--ro transceiver-code?   ipi-platform-transceiver-types:ddm_transceiver_t
| | |   +--ro wavelength?        ipi-platform-types:cml_wavelength_t
| | |   +--ro tx-disable?        empty
| | |   +--ro edfa-operating-mode? ipi-platform-types:edfa_operating_mode_t

```

```

| |    +--ro edfa-target-output-power?  decimal64
| |    +--ro edfa-target-gain?          decimal64
| |    +--ro tx-cdr-bypass?             empty
| |    +--ro rx-cdr-bypass?             empty
| +--rw disk-activity-monitoring
| | +--rw config
| | | +--rw interval?                  uint16
| | | +--rw read-threshold?           uint32
| | | +--rw write-threshold?          uint32
| | +--ro state
| |   +--ro interval?                 uint16
| |   +--ro read-threshold?           uint32
| |   +--ro write-threshold?          uint32
| +--rw temperature
| | +--rw config
| | | +--rw temperature-policy? ipi-platform-types:cml_temp_policy_t
| | +--ro state
| | | +--ro temperature-policy? ipi-platform-types:cml_temp_policy_t
| | +--rw thresholds
| |   +--rw threshold* [sensor-id]
| |     +--rw sensor-id  -> ../config/sensor-id
| |     +--rw config
| |       | +--rw sensor-id?  uint8
| |       +--ro state
| |       | +--ro sensor-id?  uint8
| |       +--rw severities
| |         +--rw severity* [severity]
| |           +--rw severity  -> ../config/severity
| |           +--rw config
| |             | +--rw severity? ipi-platform-types:cml_temp_threshold_t
| |             | +--rw value?    int16
| |             +--ro state
| |               +--ro severity? ipi-platform-types:cml_temp_threshold_t
| |               +--ro value?    int16
| +--rw fan-duty-cycle
|   +--rw config

```

```

| | +--rw fan-duty? uint8
| | +--ro state
| | +--ro fan-duty? uint8
+--rw forwarding-profile-route-modes {feature-list:HAVE_BROADCOM}?
+--rw profiles {feature-list:HAVE_BROADCOM}?
| +--rw hardware-profile
| | +--rw config
| | | +--rw flow-control?          empty {feature-list:HAVE_BCM_UFT,feature-list:HAVE_DUNE}?
| | | +--rw aclif?                ipi-platform-profile-types:platform_aclif_type_t {feature-list:HAVE_DUNE}?
| | | +--rw seamless-bfd?         empty {feature-list:HAVE_CUSTOM1_HW_BFD,feature-list:HAVE_SBFDF}?
| | | +--rw kbp-disable?          empty {feature-list:HAVE_DNX}?
| | | +--rw ufis9600-64x-port-mode? ipi-platform-profile-types:platform_ufis9600_64x_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw as7315_27x-port-mode?  ipi-platform-profile-types:platform_as7315_27x_port_mode_type_t {feature-
list:HAVE_DUNE}?
| | | +--rw as5916_as5912_54x-port-mode? ipi-platform-profile-
types:platform_as5916_as5912_54x_port_mode_type_t {feature-list:HAVE_DUNE}?
| | | +--rw as7316_26xb-port-mode?   ipi-platform-profile-types:platform_as7316_26xb_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw s9500_30xs-port-mode?    ipi-platform-profile-types:platform_s9500_30xs_port_mode_type_t {feature-
list:HAVE_DUNE}?
| | | +--rw ufis9600-32x-port-mode?  ipi-platform-profile-types:platform_ufis9600_32x_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw ufis9600-56dx-port-mode? ipi-platform-profile-types:platform_ufis9600_56dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw ufis9600-28dx-port-mode? ipi-platform-profile-types:platform_ufis9600_28dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw ufis9610-36d-port-mode?  ipi-platform-profile-types:platform_ufis9610_36d_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw ufis9610-46dx-port-mode? ipi-platform-profile-types:platform_ufis9610_46dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw ufis9610-48dx-port-mode? ipi-platform-profile-types:platform_ufis9610_48dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--rw as9947_36kxb-port-mode?  ipi-platform-profile-types:platform_as9947_36kxb_port_mode_type_t
{feature-list:HAVE_DNX}?
| | | +--rw custom-service-queue-profile? ipi-platform-profile-types:platform_qos_queue_profile_type_t {feature-
list:HAVE_DUNE}?
| | | +--rw bgp-flowspec-mode?       ipi-platform-profile-types:platform_bgp_flowspec_mode_t {feature-
list:HAVE_DUNE,feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--rw eedb?                   ipi-platform-profile-types:platform_eedb_mode_t {feature-list:HAVE_DNX}?
| | +--ro state

```

```

| | | +--ro flow-control?          empty {feature-list:HAVE_BCM_UFT,feature-list:HAVE_DUNE}?
| | | +--ro aclif?                 ipi-platform-profile-types:platform_aclif_type_t {feature-list:HAVE_DUNE}?
| | | +--ro seamless-bfd?         empty {feature-list:HAVE_CUSTOM1_HW_BFD,feature-list:HAVE_SBFDF}?
| | | +--ro kbp-disable?          empty {feature-list:HAVE_DNX}?
| | | +--ro ufis9600-64x-port-mode? ipi-platform-profile-types:platform_ufis9600_64x_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro as7315_27x-port-mode?   ipi-platform-profile-types:platform_as7315_27x_port_mode_type_t {feature-
list:HAVE_DUNE}?
| | | +--ro as5916_as5912_54x-port-mode? ipi-platform-profile-
types:platform_as5916_as5912_54x_port_mode_type_t {feature-list:HAVE_DUNE}?
| | | +--ro as7316_26xb-port-mode?   ipi-platform-profile-types:platform_as7316_26xb_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro s9500_30xs-port-mode?   ipi-platform-profile-types:platform_s9500_30xs_port_mode_type_t {feature-
list:HAVE_DUNE}?
| | | +--ro ufis9600-32x-port-mode?   ipi-platform-profile-types:platform_ufis9600_32x_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro ufis9600-56dx-port-mode?   ipi-platform-profile-types:platform_ufis9600_56dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro ufis9600-28dx-port-mode?   ipi-platform-profile-types:platform_ufis9600_28dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro ufis9610-36d-port-mode?   ipi-platform-profile-types:platform_ufis9610_36d_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro ufis9610-46dx-port-mode?   ipi-platform-profile-types:platform_ufis9610_46dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro ufis9610-48dx-port-mode?   ipi-platform-profile-types:platform_ufis9610_48dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
| | | +--ro as9947_36xb-port-mode?   ipi-platform-profile-types:platform_as9947_36kxb_port_mode_type_t
{feature-list:HAVE_DNX}?
| | | +--ro custom-service-queue-profile? ipi-platform-profile-types:platform_qos_queue_profile_type_t {feature-
list:HAVE_DUNE}?
| | | +--ro bgp-flowspec-mode?       ipi-platform-profile-types:platform_bgp_flowspec_mode_t {feature-
list:HAVE_DUNE,feature-list:HAVE_BGP_FLOWSPEC}?
| | | +--ro eedb?                   ipi-platform-profile-types:platform_eedb_mode_t {feature-list:HAVE_DNX}?
| | +--rw filters
| | | +--rw config
| | | | +--rw ingress-ip-outer?      empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
| | | | +--rw egress-dst-ipv6?       empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
| | | | +--rw egress-src-ipv6?       empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
| | | | +--rw egress-ipv6-dnx?       empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
| | | | +--rw ingress-ipv6?          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
| | | | +--rw qos-policer?           empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?

```

+-rw qos-ipv6?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ipv4-bgp-flowspec?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_BGP_FLOWSPEC}?	
+-rw qos-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv4-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv6-qos?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv4-qos?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv6-qos-copp?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER,feature-list:HAVE_IPV6}?	
+-rw ingress-ipv4-qos-copp?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER}?	
+-rw ingress-layer2-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv6-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv6-extended-vlan?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-ipv6-extended-subif?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+-rw ingress-ipv4-subif?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw ingress-arp?	empty {feature-list:HAVE_ACL}?
+-rw egress-qos-policer?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?	
+-rw egress-qos-policer-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+-rw egress-ipv4-dnx?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?	
+-rw egress-l2-mlag?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?	
+-rw egress-ipv4-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+-rw egress-layer2-dnx?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+-rw egress-layer2-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+-rw ingress-layer2-subif?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+-rw twamp-ipv4-dnx?	empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE,feature-list:HAVE_DNX}?	
+-rw twamp-ipv6?	empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE}?	
+-rw vxlan-arp-nd?	empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
+-rw vxlan-multi-homing?	empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
+-rw vxlan-short-pkt?	empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?	
+-rw dhcp-snoop?	empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
+-rw dhcp-snoop-ipv6?	empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
+-rw ipsg?	empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?

+--rw ipsg-ipv6?	empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_BROADCOM}?
+--rw ingress-ipv4?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--rw ingress-layer2?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--rw qos?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro state	
+--ro ingress-ip-outer?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+--ro egress-dst-ipv6?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+--ro egress-src-ipv6?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+--ro egress-ipv6-dnx?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+--ro ingress-ipv6?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro qos-policer?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro qos-ipv6?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ipv4-bgp-flowspec?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_BGP_FLOWSPEC}?	
+--ro qos-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv4-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv6-qos?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv4-qos?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv6-qos-copp?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER,feature-list:HAVE_IPV6}?	
+--ro ingress-ipv4-qos-copp?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER}?	
+--ro ingress-layer2-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv6-extended?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv6-extended-vlan?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-ipv6-extended-subif?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+--ro ingress-ipv4-subif?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
+--ro ingress-arp?	empty {feature-list:HAVE_ACL}?
+--ro egress-qos-policer?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?	
+--ro egress-qos-policer-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+--ro egress-ipv4-dnx?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?	
+--ro egress-l2-mlag?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?	
+--ro egress-ipv4-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
+--ro egress-layer2-dnx?	empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
+--ro egress-layer2-ext?	empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?

```

| | | +--ro ingress-layer2-subif?      empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
| | | +--ro twamp-ipv4-dnx?            empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE,feature-list:HAVE_DNX}?
| | | +--ro twamp-ipv6?                empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE}?
| | | +--ro vxlan-arp-nd?              empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
| | | +--ro vxlan-multi-homing?        empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
| | | +--ro vxlan-short-pkt?           empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?
| | | +--ro dhcp-snoop?                empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
| | | +--ro dhcp-snoop-ipv6?           empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
| | | +--ro ipsg?                      empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
| | | +--ro ipsg-ipv6?                 empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_BROADCOM}?
| | | +--ro ingress-ipv4?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
| | | +--ro ingress-layer2?            empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
| | | +--ro qos?                       empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
| | +--ro tcam-utilization {feature-list:HAVE_ACL}?
| | +--ro state
| | | +--ro warning-threshold-level?    int32
| | | +--ro critical-alert-threshold-level? int32
| | +--ro hardware-units
| | | +--ro hardware-unit* [unit core]
| | |   +--ro unit      -> ../state/unit
| | |   +--ro core      -> ../state/core
| | |   +--ro state
| | |     | +--ro unit?  uint32
| | |     | +--ro core?  uint32
| | |   +--ro filter-groups
| | |     +--ro filter-group* [group-id]
| | |       +--ro group-id  -> ../state/group-id
| | |       +--ro state
| | |         +--ro group-id?    uint32
| | |         +--ro group-name?   cml-data-types:cml_line_t
| | |         +--ro free-entries?  int32
| | |         +--ro used-entries?   int32
| | |         +--ro used-percentage? int32
| | |         +--ro total-entries?  int32

```

```

| | |      +--ro dedicated-entries?  int32
| | |      +--ro shared-entries?    int32
| | +--rw filter-evpn-mpls-mh
| | | +--rw config
| | | | +--rw evpn-mpls-multi-homing?  empty {feature-list:HAVE_NVO,feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
| | | +--ro state
| | | | +--ro evpn-mpls-multi-homing?  empty {feature-list:HAVE_NVO,feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
| | | +--ro tcam-utilization {feature-list:HAVE_ACL}?
| | |   +--ro state
| | |   | +--ro warning-threshold-level?      int32
| | |   | +--ro critical-alert-threshold-level? int32
| | |   +--ro filter-groups
| | |     +--ro filter-group* [group-id]
| | |       +--ro group-id  -> ../state/group-id
| | |       +--ro state
| | |         +--ro group-id?      uint32
| | |         +--ro group-name?    cml-data-types:cml_line_t
| | |         +--ro free-entries?  int32
| | |         +--ro used-entries?  int32
| | |         +--ro used-percentage? int32
| | |         +--ro total-entries? int32
| | |         +--ro dedicated-entries? int32
| | |         +--ro shared-entries? int32
| | +--rw statistics
| | | +--rw config
| | | | +--rw voq-scale?                ipi-platform-profile-types:platform_voq_scale_type_t {feature-
list:HAVE_DNX}?
| | | | +--rw virtual-output-queue-full-color-forward-drop? ipi-platform-profile-types:cml_voq_full_color_fwd_drop_t
{feature-list:HAVE_DNX}?
| | | | +--rw egress-policer?          empty {feature-list:HAVE_DNX}?
| | | | +--rw cfm-frame-loss-measurements?      empty {feature-list:HAVE_DUNE,feature-list:HAVE_CFM}?
| | | | +--rw cfm-synthetic-loss-measurements?  empty {feature-list:HAVE_DNX,feature-list:HAVE_CFM}?
| | | | +--rw cfm-continuity-check-message?    cml-data-types:cml_enable_disable_t {feature-
list:HAVE_DNX,feature-list:CCM_HW_OFFLOAD}?
| | | +--ro state

```

```

| | | +--ro voq-scale? ipi-platform-profile-types:platform_voq_scale_type_t {feature-
list:HAVE_DNX}?
| | | +--ro virtual-output-queue-full-color-forward-drop? ipi-platform-profile-types:cml_voq_full_color_fwd_drop_t
{feature-list:HAVE_DNX}?
| | | +--ro egress-policer? empty {feature-list:HAVE_DNX}?
| | | +--ro cfm-frame-loss-measurements? empty {feature-list:HAVE_DUNE,feature-list:HAVE_CFM}?
| | | +--ro cfm-synthetic-loss-measurements? empty {feature-list:HAVE_DNX,feature-list:HAVE_CFM}?
| | | +--ro cfm-continuity-check-message? cml-data-types:cml_enable_disable_t {feature-
list:HAVE_DNX,feature-list:CCM_HW_OFFLOAD}?
| | +--ro hardware-l2vpn-instances-limits
| | +--ro instances
| | | +--ro state
| | | | +--ro capacity? uint32
| | | | +--ro used? uint32
| | | | +--ro free? uint32
| | | | +--ro percentage? uint8
| | | +--ro services
| | | +--ro service* [name]
| | | +--ro name -> ../state/name
| | | +--ro state
| | | +--ro name? platform_l2vpn_services_t
| | | +--ro capacity? uint32
| | | +--ro used? uint32
| | | +--ro free? uint32
| | | +--ro percentage? uint8
| | +--ro vsi
| | | +--ro state
| | | | +--ro capacity? uint32
| | | | +--ro used? uint32
| | | | +--ro free? uint32
| | | | +--ro percentage? uint8
| | | +--ro services
| | | +--ro service* [name]
| | | +--ro name -> ../state/name
| | | +--ro state
| | | +--ro name? platform_l2vpn_services_t
| | | +--ro capacity? uint32

```

```

| | |      +--ro used?      uint32
| | |      +--ro free?      uint32
| | |      +--ro percentage? uint8
| | +--ro multicast-groups
| |   +--ro state
| |     | +--ro capacity?    uint32
| |     | +--ro used?        uint32
| |     | +--ro free?        uint32
| |     | +--ro percentage?  uint8
| |   +--ro services
| |     +--ro service* [name]
| |       +--ro name    -> ../state/name
| |       +--ro state
| |         +--ro name?      platform_l2vpn_services_t
| |         +--ro capacity?  uint32
| |         +--ro used?      uint32
| |         +--ro free?      uint32
| |         +--ro percentage? uint8
| +--rw forwarding-profiles
|   +--ro table-limit {feature-list:HAVE_BCM_UFT}?
|   | +--ro kaps* [profile] {feature-list:HAVE_DUNE}?
|   | | +--ro profile -> ../state/profile
|   | | +--ro state
|   | |   +--ro profile?      ipi-platform-profile-types:platform_kaps_forwading_profile_t
|   | |   +--ro is-active?    boolean
|   | |   +--ro public-db-size? uint32
|   | |   +--ro private-db-size? uint32
|   | +--ro external-tcam* [profile] {feature-list:HAVE_DUNE,feature-list:HAVE_ELK_TCAM}?
|   | | +--ro profile -> ../state/profile
|   | | +--ro state
|   | |   +--ro profile?      ipi-platform-profile-types:platform_elk_tcam_forwading_profile_t
|   | |   +--ro is-active?    boolean
|   | |   +--ro ipv4-db-size?  uint32
|   | |   +--ro ipv6-db-size?  uint32
|   | +--ro state {feature-list:HAVE_BCM_UFT}?
|   +--rw mdb {feature-list:HAVE_DNX,feature-list:HAVE_BCM_UFT,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?

```

```
| | +--rw config!
| | | +--rw type ipi-platform-profile-types:platform_mdb_profile_t
| | | +--rw kaps ipi-platform-profile-types:platform_mdb_kaps_type_t
| | +--ro state
| |   +--ro type ipi-platform-profile-types:platform_mdb_profile_t
| |   +--ro kaps ipi-platform-profile-types:platform_mdb_kaps_type_t
| +--ro hardware-routing-limits
|   +--ro lpm
|   | +--ro state
|   |   +--ro capacity? uint32
|   |   +--ro used?    uint32
|   |   +--ro free?    uint32
|   |   +--ro percentage? uint8
|   +--ro ipv4-lpm
|   | +--ro state
|   |   +--ro capacity? uint32
|   |   +--ro used?    uint32
|   |   +--ro free?    uint32
|   |   +--ro percentage? uint8
|   +--ro ipv6-lpm
|   | +--ro state
|   |   +--ro capacity? uint32
|   |   +--ro used?    uint32
|   |   +--ro free?    uint32
|   |   +--ro percentage? uint8
|   +--ro mpls-labels-pop
|   | +--ro state
|   |   +--ro capacity? uint32
|   |   +--ro used?    uint32
|   |   +--ro free?    uint32
|   |   +--ro percentage? uint8
|   +--ro mpls-labels-swap
|   | +--ro state
|   |   +--ro capacity? uint32
|   |   +--ro used?    uint32
|   |   +--ro free?    uint32
```

```

|      +--ro percentage?  uint8
+--rw hardware {feature-list:HAVE_BROADCOM}?
| +--rw hw-soc-property
| | +--rw config
| | +--ro state
| +--rw load-balance {feature-list:HAVE_BROADCOM}?
| | +--rw config!
| | | +--rw enable          empty
| | | +--rw mpls-label-based? empty
| | +--ro state
| | | +--ro enable          empty
| | | +--ro mpls-label-based? empty
| | +--rw l2 {feature-list:HAVE_L2}?
| | | +--rw config
| | | | +--rw ether-type-based?  empty
| | | | +--rw vlan-based?        empty
| | | | +--rw src-dest-mac-based? empty {feature-list:HAVE_DNX}?
| | | | +--rw symmetric-type?    ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | | | +--ro state
| | | | +--ro ether-type-based?  empty
| | | | +--ro vlan-based?        empty
| | | | +--ro src-dest-mac-based? empty {feature-list:HAVE_DNX}?
| | | | +--ro symmetric-type?    ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | | +--rw inner-l2 {feature-list:HAVE_L2,feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?
| | | | +--rw config
| | | | | +--rw ether-type-based?  empty
| | | | | +--rw vlan-based?        empty
| | | | | +--rw src-dest-mac-based? empty {feature-list:HAVE_DNX}?
| | | | | +--rw symmetric-type?    ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | | | +--ro state
| | | | +--ro ether-type-based?  empty
| | | | +--ro vlan-based?        empty
| | | | +--ro src-dest-mac-based? empty {feature-list:HAVE_DNX}?
| | | | +--ro symmetric-type?    ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | +--rw ipv4 {feature-list:HAVE_L3}?
| | | +--rw config

```

```

| | | +-rw protocol-id-based?      empty
| | | +-rw src-dest-ipv4-address-based?  empty {feature-list:HAVE_DNX}?
| | | +-rw symmetric-type?          ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
| | +-ro state
| | | +-ro protocol-id-based?      empty
| | | +-ro src-dest-ipv4-address-based?  empty {feature-list:HAVE_DNX}?
| | | +-ro symmetric-type?          ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
| | +-rw inner-ipv4 {feature-list:HAVE_L3,feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?
| | | +-rw config
| | | | +-rw src-dest-ipv4-address-based?  empty {feature-list:HAVE_DNX}?
| | | | +-rw symmetric-type?          ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
| | | | +-rw protocol-id-based?      empty {feature-list:HAVE_DNX}?
| | | +-ro state
| | | +-ro src-dest-ipv4-address-based?  empty {feature-list:HAVE_DNX}?
| | | +-ro symmetric-type?          ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
| | | +-ro protocol-id-based?      empty {feature-list:HAVE_DNX}?
| | +-rw ipv6 {feature-list:HAVE_L3}?
| | +-rw config
| | | +-rw next-header-based?      empty
| | | +-rw src-dest-ipv6-address-based?  empty {feature-list:HAVE_DNX}?
| | | +-rw flow-label-based?      empty {feature-list:HAVE_DNX}?
| | +-ro state
| | | +-ro next-header-based?      empty
| | | +-ro src-dest-ipv6-address-based?  empty {feature-list:HAVE_DNX}?
| | | +-ro flow-label-based?      empty {feature-list:HAVE_DNX}?
| | +-rw l4-port {feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
| | +-rw config
| | | +-rw src-dest-based?  empty
| | | +-rw symmetric-type?  ipi-platform-profile-types:platform_loadbalance_type_t
| | +-ro state
| | | +-ro src-dest-based?  empty
| | | +-ro symmetric-type?  ipi-platform-profile-types:platform_loadbalance_type_t
| | +-rw port-channel {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?

```

```
| +--ro dram-tune {feature-list:HAVE_BROADCOM}?
| | +--ro state
| |   +--ro dram-tune-status? int32 {feature-list:HAVE_BROADCOM}?
| +--rw cpu-queue {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
| | +--rw rate-limits
| |   +--rw rate-limit* [queue-name]
| |     +--rw queue-name -> ../config/queue-name
| |     +--rw config
| |       | +--rw queue-name? ipi-platform-profile-types:platform_cpu_queue_name_t
| |       | +--rw rate? int32
| |       | +--rw monitor-status? ipi-platform-profile-types:platform_cpu_queue_monitor_t {feature-list:HAVE_DUNE}?
| |       +--ro state
| |         +--ro queue-name? ipi-platform-profile-types:platform_cpu_queue_name_t
| |         +--ro rate? int32
| |         +--ro monitor-status? ipi-platform-profile-types:platform_cpu_queue_monitor_t {feature-list:HAVE_DUNE}?
| +--rw mac-ageing {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
| | +--rw config
| | +--ro state
| +--rw platform {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
|   +--rw config
|   +--rw soc? ipi-platform-profile-types:platform_soc_type_t
+--rw qsfp-dds {feature-list:NOT_HAVE_XCVR_MODEL}?
  +--rw qsfp-dd* [fp-port]
    +--rw fp-port -> ../config/fp-port
    +--rw config
      | +--rw fp-port? uint8
      | +--rw application? uint8
      | +--rw service-disable? empty
      | +--rw custom-app-host-id? uint8
      | +--rw custom-app-media-id? uint8
    +--ro state
      | +--ro fp-port? uint8
      | +--ro application? uint8
      | +--ro service-disable? empty
      | +--ro custom-app-host-id? uint8
      | +--ro custom-app-media-id? uint8
```

```

+--rw host
| +--rw prbs
| | +--rw generator
| | | +--rw config
| | | | +--rw type?      ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| | | | +--rw location?  ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| | | +--ro state
| | |   +--ro type?      ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| | |   +--ro location?  ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| | +--rw checker
| |   +--rw config
| | | +--rw type?      ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| | | +--rw location?  ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| |   +--ro state
| |     +--ro type?      ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| |     +--ro location?  ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| +--rw loopback
| | +--rw config
| | | +--rw type?  ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| | +--ro state
| |   +--ro type?  ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| +--rw lanes
|   +--rw lane* [lane-number]
|     +--rw lane-number    -> ../config/lane-number
|     +--rw config
|     | +--rw lane-number?  uint8
|     +--ro state
|     | +--ro lane-number?  uint8
|     +--rw thresholds
|     | +--rw threshold* [id]
|     |   +--rw id        -> ../config/id
|     |   +--rw config
|     | | +--rw id?          ipi-platform-cmis-types:cmm_ccmis_host_lane_thres_id_t
|     | | +--rw high-alarm?  decimal64
|     | | +--rw low-alarm?   decimal64
|     | | +--rw high-warning? decimal64

```

```
| | | +--rw low-warning? decimal64
| | +--ro state
| |   +--ro id? ipi-platform-cmis-types:cm_m_cmis_host_lane_thres_id_t
| |   +--ro high-alarm? decimal64
| |   +--ro low-alarm? decimal64
| |   +--ro high-warning? decimal64
| |   +--ro low-warning? decimal64
| +--rw signal-integrity
|   +--rw config
|     | +--rw tx-input-equalizer-target? uint8
|     | +--rw rx-output-equalizer-pre-cursor-target? uint8
|     | +--rw rx-output-equalizer-post-cursor-target? uint8
|     | +--rw rx-output-amplitude-target? uint8
|     | +--rw tx-cdr-bypass? empty
|     | +--rw rx-cdr-bypass? empty
|     +--ro state
|       +--ro tx-input-equalizer-target? uint8
|       +--ro rx-output-equalizer-pre-cursor-target? uint8
|       +--ro rx-output-equalizer-post-cursor-target? uint8
|       +--ro rx-output-amplitude-target? uint8
|       +--ro tx-cdr-bypass? empty
|       +--ro rx-cdr-bypass? empty
+--rw media
| +--rw prbs
| | +--rw generator
| | | +--rw config
| | | | +--rw type? ipi-platform-cmis-types:cm_m_cmis_prbs_type_t
| | | | +--rw location? ipi-platform-cmis-types:cm_m_cmis_prbs_location_t
| | | +--ro state
| | |   +--ro type? ipi-platform-cmis-types:cm_m_cmis_prbs_type_t
| | |   +--ro location? ipi-platform-cmis-types:cm_m_cmis_prbs_location_t
| | +--rw checker
| |   +--rw config
| | | +--rw type? ipi-platform-cmis-types:cm_m_cmis_prbs_type_t
| | | +--rw location? ipi-platform-cmis-types:cm_m_cmis_prbs_location_t
| | +--ro state
```

```

| |    +--ro type?    ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| |    +--ro location? ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| +--rw loopback
| | +--rw config
| | | +--rw type? ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| | +--ro state
| |    +--ro type? ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| +--rw lanes
|   +--rw lane* [lane-number]
|     +--rw lane-number -> ../config/lane-number
|     +--rw config
|       | +--rw lane-number? uint8
|       +--ro state
|         | +--ro lane-number? uint8
|         +--rw laser
|           | +--rw config
|           | | +--rw channel?    int16
|           | | +--rw grid?      ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|           | | +--rw fine-tune-freq? decimal64
|           | | +--rw output-power? decimal64
|           | +--ro state
|           |   +--ro channel?    int16
|           |   +--ro grid?      ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|           |   +--ro fine-tune-freq? decimal64
|           |   +--ro output-power? decimal64
|           +--rw thresholds
|             | +--rw threshold* [id]
|             |   +--rw id      -> ../config/id
|             |   +--rw config
|             | | +--rw id?      ipi-platform-cmis-types:cmm_ccmis_media_lane_thres_id_t
|             | | +--rw high-alarm? decimal64
|             | | +--rw low-alarm? decimal64
|             | | +--rw high-warning? decimal64
|             | | +--rw low-warning? decimal64
|             | +--ro state
|             |   +--ro id?      ipi-platform-cmis-types:cmm_ccmis_media_lane_thres_id_t

```

```

|   |   +--ro high-alarm?   decimal64
|   |   +--ro low-alarm?    decimal64
|   |   +--ro high-warning? decimal64
|   |   +--ro low-warning?  decimal64
|   +--rw provisions
|       +--rw config
|           | +--rw tx-filter-type?    ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
|           | +--rw tx-filter-roll-off? decimal64
|           +--ro state
|               +--ro tx-filter-type?    ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
|               +--ro tx-filter-roll-off? decimal64
+--rw laser
| +--rw config
| | +--rw channel?      int16
| | +--rw grid?         ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
| | +--rw fine-tune-freq? decimal64
| | +--rw output-power? decimal64
| +--ro state
|   +--ro channel?      int16
|   +--ro grid?         ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|   +--ro fine-tune-freq? decimal64
|   +--ro output-power? decimal64
+--rw thresholds
| +--rw threshold* [id]
|   +--rw id      -> ../config/id
|   +--rw config
|       | +--rw id?          ipi-platform-cmis-types:cmm_ccmis_thres_id_t
|       | +--rw high-alarm?  decimal64
|       | +--rw low-alarm?   decimal64
|       | +--rw high-warning? decimal64
|       | +--rw low-warning? decimal64
|       +--ro state
|           +--ro id?          ipi-platform-cmis-types:cmm_ccmis_thres_id_t
|           +--ro high-alarm?  decimal64
|           +--ro low-alarm?   decimal64
|           +--ro high-warning? decimal64

```

```

|   +--ro low-warning?   decimal64
+--rw signal-integrity
| +--rw config
| | +--rw tx-input-equalizer-target?      uint8
| | +--rw rx-output-equalizer-pre-cursor-target?  uint8
| | +--rw rx-output-equalizer-post-cursor-target? uint8
| | +--rw rx-output-amplitude-target?      uint8
| | +--rw tx-cdr-bypass?                   empty
| | +--rw rx-cdr-bypass?                   empty
| +--ro state
|   +--ro tx-input-equalizer-target?      uint8
|   +--ro rx-output-equalizer-pre-cursor-target?  uint8
|   +--ro rx-output-equalizer-post-cursor-target? uint8
|   +--ro rx-output-amplitude-target?      uint8
|   +--ro tx-cdr-bypass?                   empty
|   +--ro rx-cdr-bypass?                   empty
+--rw gating
| +--rw config
| | +--rw interval?  ipi-platform-cmis-types:cm_mis_gating_interval_t
| +--ro state
|   +--ro interval?  ipi-platform-cmis-types:cm_mis_gating_interval_t
+--rw provisions
  +--rw config
  | +--rw tx-filter-type?   ipi-platform-cmis-types:cm_mis_tx_filter_type_t
  | +--rw tx-filter-roll-off? decimal64
  +--ro state
    +--ro tx-filter-type?   ipi-platform-cmis-types:cm_mis_tx_filter_type_t
    +--ro tx-filter-roll-off? decimal64

```

rpcs:

```

+---x transceiver-cmis-write {feature-list:HAVE_CMMD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w component-name  string
|   +---w bank            uint8
|   +---w page            uint8
|   +---w offset          uint8

```



```

|   +---w size          int16
|   +---w value         string
+---x transceiver-cmis-read {feature-list:HAVE_CMMD,feature-list:NOT_HAVE_TIBIT}?
|   +---w input
| |   +---w component-name  string
| |   +---w bank           uint8
| |   +---w page           uint8
| |   +---w offset         uint8
| |   +---w size           int16
|   +--ro output
|   +--ro result  string
+---x tibit-olt-microplug-set-management-vlan-tpid {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w interface-name  string
|   +---w vlan-tpid       ipi-platform-transceiver-tibit-types:trans_tibit_cmm_tpid_t
+---x tibit-olt-microplug-set-management-vlan-id {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w interface-name  string
|   +---w vlan-id         uint16
+---x tibit-olt-microplug-set-ethernet-mac-address {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w interface-name  string
|   +---w mac-address     yang:mac-address
+---x tibit-olt-microplug-set-next-active-firmware-bank {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w interface-name  string
|   +---w bank-id         uint8
+---x tibit-olt-microplug-reboot {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w interface-name  string
+---x ddm-clear-transceiver-alarm-all {feature-list:NOT_HAVE_TIBIT}?
+---x ddm-clear-transceiver-alarm {feature-list:NOT_HAVE_TIBIT}?
|   +---w input
|   +---w name  string
+---x cmm-terminal-debug-ddm-on {feature-list:NOT_HAVE_TIBIT}?
+---x cmm-terminal-debug-ddm-off {feature-list:NOT_HAVE_TIBIT}?

```

```
+---x cmm-terminal-debug-cmm-on {feature-list:HAVE_CMMD}?  
+---x cmm-terminal-debug-cmm-off {feature-list:HAVE_CMMD}?  
+---x gps-survey-restart {feature-list:HAVE_PTP_HW_OFFLOAD}?
```

notifications:

```
+---n bmc-lower-non-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?  
| +--ro severity?      cml-data-types:cml_notif_severity_t  
| +--ro eventClass?    cml-data-types:cml_notif_class_t  
| +--ro name?          string  
| +--ro lower-non-critical? decimal64  
| +--ro threshold?     decimal64  
| +--ro units?         string  
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t  
+---n bmc-lower-non-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?  
| +--ro severity?      cml-data-types:cml_notif_severity_t  
| +--ro eventClass?    cml-data-types:cml_notif_class_t  
| +--ro name?          string  
| +--ro lower-non-critical? decimal64  
| +--ro threshold?     decimal64  
| +--ro units?         string  
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t  
+---n bmc-lower-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?  
| +--ro severity?      cml-data-types:cml_notif_severity_t  
| +--ro eventClass?    cml-data-types:cml_notif_class_t  
| +--ro name?          string  
| +--ro lower-critical? decimal64  
| +--ro threshold?     decimal64  
| +--ro units?         string  
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t  
+---n bmc-lower-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?  
| +--ro severity?      cml-data-types:cml_notif_severity_t  
| +--ro eventClass?    cml-data-types:cml_notif_class_t  
| +--ro name?          string  
| +--ro lower-critical? decimal64  
| +--ro threshold?     decimal64  
| +--ro units?         string
```

```
| +--ro event-type?      ipi-platform-types:comm_bmc_event_type_t
+---n bmc-lower-non-recoverable-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro lower-non-recoverable? decimal64
| +--ro threshold?      decimal64
| +--ro units?          string
| +--ro event-type?     ipi-platform-types:comm_bmc_event_type_t
+---n bmc-lower-non-recoverable-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro lower-non-recoverable? decimal64
| +--ro threshold?      decimal64
| +--ro units?          string
| +--ro event-type?     ipi-platform-types:comm_bmc_event_type_t
+---n bmc-upper-non-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro upper-non-critical? decimal64
| +--ro threshold?      decimal64
| +--ro units?          string
| +--ro event-type?     ipi-platform-types:comm_bmc_event_type_t
+---n bmc-upper-non-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro upper-non-critical? decimal64
| +--ro threshold?      decimal64
| +--ro units?          string
| +--ro event-type?     ipi-platform-types:comm_bmc_event_type_t
+---n bmc-upper-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
```

```
| +--ro name?          string
| +--ro upper-critical? decimal64
| +--ro threshold?     decimal64
| +--ro units?         string
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro upper-critical? decimal64
| +--ro threshold?     decimal64
| +--ro units?         string
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-recoverable-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro upper-non-recoverable? decimal64
| +--ro threshold?     decimal64
| +--ro units?         string
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-recoverable-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro upper-non-recoverable? decimal64
| +--ro threshold?     decimal64
| +--ro units?         string
| +--ro event-type?    ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-device-state-notification {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro operational-status? string
+---n cpu-load-15min-alert
| +--ro severity?      cml-data-types:cml_notif_severity_t
```

```

| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro cpu-15min-load-percentage? decimal64
| +--ro cpu-15min-alert-threshold? uint8
+---n cpu-load-15min-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro cpu-15min-load-percentage? decimal64
| +--ro cpu-15min-alert-threshold? uint8
+---n cpu-load-5min-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro cpu-5min-load-percentage? decimal64
| +--ro cpu-5min-alert-threshold? uint8
+---n cpu-load-5min-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro cpu-5min-load-percentage? decimal64
| +--ro cpu-5min-alert-threshold? uint8
+---n cpu-load-1min-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro cpu-1min-load-percentage? decimal64
| +--ro cpu-1min-critical-threshold? uint8
+---n cpu-load-1min-critical-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro cpu-1min-load-percentage? decimal64
| +--ro cpu-1min-critical-threshold? uint8
+---n cpu-load-1min-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t

```

```
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro cpu-1min-load-percentage? decimal64
| +--ro cpu-1min-alert-threshold? uint8
+---n cpu-load-1min-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro cpu-1min-load-percentage? decimal64
| +--ro cpu-1min-alert-threshold? uint8
+---n storage-usage-rising-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro used-memory?        uint64
| +--ro usage-alert-threshold? int32
| +--ro mount-point?       string
+---n storage-usage-critical-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro used-memory?        uint64
| +--ro usage-critical-threshold? int32
| +--ro mount-point?       string
+---n storage-usage-recovery-from-alert-level
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro used-memory?        uint64
| +--ro usage-alert-threshold? int32
| +--ro mount-point?       string
+---n storage-usage-recovery-from-critical-level
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro used-memory?        uint64
```

```

| +--ro usage-critical-threshold?  int32
| +--ro mount-point?              string
+---n storage-remaining-life-rising-alert
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro remaining-life?            int32
| +--ro remain-life-alert-threshold?  int32
+---n storage-remaining-life-rising-critical
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro remaining-life?            int32
| +--ro remain-life-critical-threshold?  int32
+---n storage-available-reserved-space-rising-alert
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro available-reserved-space?    int32
| +--ro available-reserved-space-alert-threshold?  int32
+---n storage-available-reserved-space-rising-critical
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro available-reserved-space?    int32
| +--ro available-reserved-space-critical-threshold?  int32
+---n storage-reallocated-sector-count-rising-alert
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro reallocated-sector-count?  int32
+---n storage-uncorrectable-sector-count-rising-critical
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro uncorrectable-sector-count?  int32

```

```
+---n storage-harddisk-monitoring-read-alert
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro read-average?  int32
| +--ro read-threshold? int32
+---n storage-harddisk-recovery-from-read-alert-level
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro read-average?  int32
| +--ro read-threshold? int32
+---n storage-harddisk-monitoring-write-alert
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro write-average?  int32
| +--ro write-threshold? int32
+---n storage-harddisk-recovery-from-write-alert-level
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro write-average?  int32
| +--ro write-threshold? int32
+---n storage-storage-status-alert
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro storage-status? ipi-platform-types:cml_cmm_storage_status_t
+---n storage-storage-status-critical
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?          string
| +--ro storage-status? ipi-platform-types:cml_cmm_storage_status_t
+---n ram-usage-rising-critical
| +--ro severity?      cml-data-types:cml_notif_severity_t
```

```

| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro used-memory?         uint64
| +--ro usage-critical-threshold? uint32
+---n ram-usage-rising-alert
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro used-memory?         uint64
| +--ro usage-alert-threshold? uint32
+---n ram-usage-recovery-from-critical-level
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro used-memory?         uint64
| +--ro usage-critical-threshold? uint32
+---n ram-usage-recovery-from-alert-level
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro used-memory?         uint64
| +--ro usage-alert-threshold? uint32
+---n transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro port-no?             uint8
| +--ro type?                 ipi-platform-transceiver-types:ddm_cmm_trans_type_t
| +--ro vendor-name?         string
| +--ro vendor-serial-number? string
| +--ro connector-type?       ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
+---n transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro port-no?             uint8

```

```

| +--ro type?          ipi-platform-transceiver-types:ddm_cmm_trans_type_t
| +--ro vendor-name?   string
| +--ro vendor-serial-number? string
| +--ro connector-type? ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
+---n faulty-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
| +--ro port-no?      uint8
| +--ro type?         ipi-platform-transceiver-types:ddm_cmm_trans_type_t
+---n incompatible-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
| +--ro port-no?      uint8
+---n incompatible-transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
| +--ro port-no?      uint8
+---n frequency-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro frequency-error?    decimal64
| +--ro frequency-error-critical-min-threshold? decimal64
| +--ro frequency-error-critical-max-threshold? decimal64
+---n frequency-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro frequency-error?    decimal64
| +--ro frequency-error-critical-min-threshold? decimal64
| +--ro frequency-error-critical-max-threshold? decimal64
+---n frequency-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t

```

```

| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro frequency-error?     decimal64
| +--ro frequency-error-alert-min-threshold? decimal64
| +--ro frequency-error-alert-max-threshold? decimal64
+---n frequency-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro frequency-error?     decimal64
| +--ro frequency-error-alert-min-threshold? decimal64
| +--ro frequency-error-alert-max-threshold? decimal64
+---n frequency-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro frequency-error?     decimal64
+---n wavelength-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro wavelength-error?    decimal64
| +--ro wavelength-error-critical-min-threshold? decimal64
| +--ro wavelength-error-critical-max-threshold? decimal64
+---n wavelength-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro wavelength-error?    decimal64
| +--ro wavelength-error-critical-min-threshold? decimal64
| +--ro wavelength-error-critical-max-threshold? decimal64
+---n wavelength-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro wavelength-error?    decimal64

```

```
| +--ro wavelength-error-alert-min-threshold? decimal64
| +--ro wavelength-error-alert-max-threshold? decimal64
+---n wavelength-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro wavelength-error?   decimal64
| +--ro wavelength-error-alert-min-threshold? decimal64
| +--ro wavelength-error-alert-max-threshold? decimal64
+---n wavelength-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro wavelength-error?   decimal64
+---n thermoelectric-cooler-fault-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro thermoelectric-cooler-fault? boolean
+---n thermoelectric-cooler-fault-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro thermoelectric-cooler-fault? boolean
+---n rx-loss-of-signal {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
+---n rx-loss-of-signal-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
+---n input-power-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
```

```
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro index?              uint8
| +--ro name?               string
| +--ro input-power?        decimal64
| +--ro input-power-critical-min-threshold? decimal64
| +--ro input-power-critical-max-threshold? decimal64
+---n input-power-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
| +--ro input-power?        decimal64
| +--ro input-power-critical-min-threshold? decimal64
| +--ro input-power-critical-max-threshold? decimal64
+---n input-power-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
| +--ro input-power?        decimal64
| +--ro input-power-alert-min-threshold? decimal64
| +--ro input-power-alert-max-threshold? decimal64
+---n input-power-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
| +--ro input-power?        decimal64
| +--ro input-power-alert-min-threshold? decimal64
| +--ro input-power-alert-max-threshold? decimal64
+---n input-power-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro index?             uint8
| +--ro name?              string
| +--ro input-power?        decimal64
```

```
+---n output-power-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                cml-data-types:cml_notif_severity_t
| +--ro eventClass?              cml-data-types:cml_notif_class_t
| +--ro index?                   uint8
| +--ro name?                    string
| +--ro output-power?            decimal64
| +--ro output-power-critical-min-threshold? decimal64
| +--ro output-power-critical-max-threshold? decimal64
+---n output-power-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                cml-data-types:cml_notif_severity_t
| +--ro eventClass?              cml-data-types:cml_notif_class_t
| +--ro index?                   uint8
| +--ro name?                    string
| +--ro output-power?            decimal64
| +--ro output-power-critical-min-threshold? decimal64
| +--ro output-power-critical-max-threshold? decimal64
+---n output-power-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                cml-data-types:cml_notif_severity_t
| +--ro eventClass?              cml-data-types:cml_notif_class_t
| +--ro index?                   uint8
| +--ro name?                    string
| +--ro output-power?            decimal64
| +--ro output-power-alert-min-threshold? decimal64
| +--ro output-power-alert-max-threshold? decimal64
+---n output-power-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                cml-data-types:cml_notif_severity_t
| +--ro eventClass?              cml-data-types:cml_notif_class_t
| +--ro index?                   uint8
| +--ro name?                    string
| +--ro output-power?            decimal64
| +--ro output-power-alert-min-threshold? decimal64
| +--ro output-power-alert-max-threshold? decimal64
+---n output-power-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro index?       uint8
```

```
| +--ro name?      string
| +--ro output-power?  decimal64
+---n laser-bias-current-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro index?        uint8
| +--ro name?          string
| +--ro laser-bias-current?      decimal64
| +--ro laser-bias-current-critical-min-threshold?  decimal64
| +--ro laser-bias-current-critical-max-threshold?  decimal64
+---n laser-bias-current-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro index?        uint8
| +--ro name?          string
| +--ro laser-bias-current?      decimal64
| +--ro laser-bias-current-critical-min-threshold?  decimal64
| +--ro laser-bias-current-critical-max-threshold?  decimal64
+---n laser-bias-current-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro index?        uint8
| +--ro name?          string
| +--ro laser-bias-current?      decimal64
| +--ro laser-bias-current-alert-min-threshold?  decimal64
| +--ro laser-bias-current-alert-max-threshold?  decimal64
+---n laser-bias-current-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro index?        uint8
| +--ro name?          string
| +--ro laser-bias-current?      decimal64
| +--ro laser-bias-current-alert-min-threshold?  decimal64
| +--ro laser-bias-current-alert-max-threshold?  decimal64
+---n laser-bias-current-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
```

```
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro index?          uint8
| +--ro name?           string
| +--ro laser-bias-current? decimal64
+---n transceiver-temperature-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro transceiver-temperature? decimal64
| +--ro temperature-critical-min-threshold? decimal64
| +--ro temperature-critical-max-threshold? decimal64
+---n transceiver-temperature-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro transceiver-temperature? decimal64
| +--ro temperature-critical-min-threshold? decimal64
| +--ro temperature-critical-max-threshold? decimal64
+---n transceiver-temperature-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro transceiver-temperature? decimal64
| +--ro temperature-alert-min-threshold? decimal64
| +--ro temperature-alert-max-threshold? decimal64
+---n transceiver-temperature-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro transceiver-temperature? decimal64
| +--ro temperature-alert-min-threshold? decimal64
| +--ro temperature-alert-max-threshold? decimal64
+---n transceiver-temperature-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
```

```

| +--ro transceiver-temperature?  decimal64
+---n transceiver-voltage-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro transceiver-voltage?       decimal64
| +--ro voltage-critical-min-threshold?  decimal64
| +--ro voltage-critical-max-threshold?  decimal64
+---n transceiver-voltage-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro transceiver-voltage?       decimal64
| +--ro voltage-critical-min-threshold?  decimal64
| +--ro voltage-critical-max-threshold?  decimal64
+---n transceiver-voltage-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro transceiver-voltage?       decimal64
| +--ro voltage-alert-min-threshold?  decimal64
| +--ro voltage-alert-max-threshold?  decimal64
+---n transceiver-voltage-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro transceiver-voltage?       decimal64
| +--ro voltage-alert-min-threshold?  decimal64
| +--ro voltage-alert-max-threshold?  decimal64
+---n transceiver-voltage-error-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro severity?                  cml-data-types:cml_notif_severity_t
| +--ro eventClass?                cml-data-types:cml_notif_class_t
| +--ro name?                      string
| +--ro transceiver-voltage?       decimal64
+---n temperature-high
| +--ro severity?                  cml-data-types:cml_notif_severity_t

```

```
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro name?         string
| +--ro alarm-status?  boolean
| +--ro alarm-threshold? decimal64
| +--ro instant?      decimal64
+---n temperature-low
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
| +--ro alarm-status?  boolean
| +--ro alarm-threshold? decimal64
| +--ro instant?      decimal64
+---n power-supply-inserted
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
+---n power-supply-absent
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
+---n power-supply-ac-failed
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
+---n power-supply-ac-recovery
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
+---n power-supply-12v-failed
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
+---n power-supply-12v-recovery
| +--ro severity?     cml-data-types:cml_notif_severity_t
| +--ro eventClass?   cml-data-types:cml_notif_class_t
| +--ro name?         string
```

```

+---n psu-vin-low-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?       cml-data-types:cml_notif_class_t
| +--ro name?             string
| +--ro input-voltage?     decimal64
| +--ro vin-alert-threshold-min? decimal64
| +--ro vin-alert-threshold-max? decimal64
+---n psu-vin-high-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?       cml-data-types:cml_notif_class_t
| +--ro name?             string
| +--ro input-voltage?     decimal64
| +--ro vin-alert-threshold-min? decimal64
| +--ro vin-alert-threshold-max? decimal64
+---n psu-vin-low-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?       cml-data-types:cml_notif_class_t
| +--ro name?             string
| +--ro input-voltage?     decimal64
| +--ro vin-critical-threshold-min? decimal64
| +--ro vin-critical-threshold-max? decimal64
+---n psu-vin-high-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?       cml-data-types:cml_notif_class_t
| +--ro name?             string
| +--ro input-voltage?     decimal64
| +--ro vin-critical-threshold-min? decimal64
| +--ro vin-critical-threshold-max? decimal64
+---n psu-vin-low-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?       cml-data-types:cml_notif_class_t
| +--ro name?             string
| +--ro input-voltage?     decimal64
| +--ro vin-alert-threshold-min? decimal64
| +--ro vin-alert-threshold-max? decimal64
+---n psu-vin-high-alert-recovery

```

```
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-voltage?     decimal64
| +--ro vin-alert-threshold-min? decimal64
| +--ro vin-alert-threshold-max? decimal64
+---n psu-vin-low-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-voltage?     decimal64
| +--ro vin-critical-threshold-min? decimal64
| +--ro vin-critical-threshold-max? decimal64
+---n psu-vin-high-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-voltage?     decimal64
| +--ro vin-critical-threshold-min? decimal64
| +--ro vin-critical-threshold-max? decimal64
+---n psu-vout-low-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-voltage?    decimal64
| +--ro vout-alert-threshold-min? decimal64
| +--ro vout-alert-threshold-max? decimal64
+---n psu-vout-high-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-voltage?    decimal64
| +--ro vout-alert-threshold-min? decimal64
| +--ro vout-alert-threshold-max? decimal64
+---n psu-vout-low-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
```

```

| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro output-voltage?      decimal64
| +--ro vout-critical-threshold-min? decimal64
| +--ro vout-critical-threshold-max? decimal64
+---n psu-vout-high-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro output-voltage?     decimal64
| +--ro vout-critical-threshold-min? decimal64
| +--ro vout-critical-threshold-max? decimal64
+---n psu-vout-low-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro output-voltage?     decimal64
| +--ro vout-alert-threshold-min? decimal64
| +--ro vout-alert-threshold-max? decimal64
+---n psu-vout-high-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro output-voltage?     decimal64
| +--ro vout-alert-threshold-min? decimal64
| +--ro vout-alert-threshold-max? decimal64
+---n psu-vout-low-critical-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro output-voltage?     decimal64
| +--ro vout-critical-threshold-min? decimal64
| +--ro vout-critical-threshold-max? decimal64
+---n psu-vout-high-critical-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t

```

```
| +--ro name?                string
| +--ro output-voltage?      decimal64
| +--ro vout-critical-threshold-min? decimal64
| +--ro vout-critical-threshold-max? decimal64
+---n psu-pin-low-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro input-power?        decimal64
| +--ro pin-alert-threshold-min? decimal64
| +--ro pin-alert-threshold-max? decimal64
+---n psu-pin-high-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro input-power?        decimal64
| +--ro pin-alert-threshold-min? decimal64
| +--ro pin-alert-threshold-max? decimal64
+---n psu-pin-low-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro input-power?        decimal64
| +--ro pin-critical-threshold-min? decimal64
| +--ro pin-critical-threshold-max? decimal64
+---n psu-pin-high-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro input-power?        decimal64
| +--ro pin-critical-threshold-min? decimal64
| +--ro pin-critical-threshold-max? decimal64
+---n psu-pin-low-alert-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
```

```

| +--ro input-power?          decimal64
| +--ro pin-alert-threshold-min? decimal64
| +--ro pin-alert-threshold-max? decimal64
+---n psu-pin-high-alert-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro input-power?          decimal64
| +--ro pin-alert-threshold-min? decimal64
| +--ro pin-alert-threshold-max? decimal64
+---n psu-pin-low-critical-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro input-power?          decimal64
| +--ro pin-critical-threshold-min? decimal64
| +--ro pin-critical-threshold-max? decimal64
+---n psu-pin-high-critical-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro input-power?          decimal64
| +--ro pin-critical-threshold-min? decimal64
| +--ro pin-critical-threshold-max? decimal64
+---n psu-pout-low-alert
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro power-consumption?    decimal64
| +--ro pout-alert-threshold-min? decimal64
| +--ro pout-alert-threshold-max? decimal64
+---n psu-pout-high-alert
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro power-consumption?    decimal64

```

```
| +--ro pout-alert-threshold-min? decimal64
| +--ro pout-alert-threshold-max? decimal64
+---n psu-pout-low-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro power-consumption? decimal64
| +--ro pout-critical-threshold-min? decimal64
| +--ro pout-critical-threshold-max? decimal64
+---n psu-pout-high-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro power-consumption? decimal64
| +--ro pout-critical-threshold-min? decimal64
| +--ro pout-critical-threshold-max? decimal64
+---n psu-pout-low-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro power-consumption? decimal64
| +--ro pout-alert-threshold-min? decimal64
| +--ro pout-alert-threshold-max? decimal64
+---n psu-pout-high-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro power-consumption? decimal64
| +--ro pout-alert-threshold-min? decimal64
| +--ro pout-alert-threshold-max? decimal64
+---n psu-pout-low-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro power-consumption? decimal64
| +--ro pout-critical-threshold-min? decimal64
```



```

| +--ro pout-critical-threshold-max?  decimal64
+---n psu-pout-high-critical-recovery
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro name?                        string
| +--ro power-consumption?           decimal64
| +--ro pout-critical-threshold-min? decimal64
| +--ro pout-critical-threshold-max? decimal64
+---n psu-iout-low-alert
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro name?                        string
| +--ro output-current?              decimal64
| +--ro iout-alert-threshold-min?    decimal64
| +--ro iout-alert-threshold-max?    decimal64
+---n psu-iout-high-alert
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro name?                        string
| +--ro output-current?              decimal64
| +--ro iout-alert-threshold-min?    decimal64
| +--ro iout-alert-threshold-max?    decimal64
+---n psu-iout-low-critical
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro name?                        string
| +--ro output-current?              decimal64
| +--ro iout-critical-threshold-min? decimal64
| +--ro iout-critical-threshold-max? decimal64
+---n psu-iout-high-critical
| +--ro severity?                    cml-data-types:cml_notif_severity_t
| +--ro eventClass?                  cml-data-types:cml_notif_class_t
| +--ro name?                        string
| +--ro output-current?              decimal64
| +--ro iout-critical-threshold-min? decimal64
| +--ro iout-critical-threshold-max? decimal64

```

```
+---n psu-iout-low-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-current?     decimal64
| +--ro iout-alert-threshold-min? decimal64
| +--ro iout-alert-threshold-max? decimal64
+---n psu-iout-high-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-current?     decimal64
| +--ro iout-alert-threshold-min? decimal64
| +--ro iout-alert-threshold-max? decimal64
+---n psu-iout-low-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-current?     decimal64
| +--ro iout-critical-threshold-min? decimal64
| +--ro iout-critical-threshold-max? decimal64
+---n psu-iout-high-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro output-current?     decimal64
| +--ro iout-critical-threshold-min? decimal64
| +--ro iout-critical-threshold-max? decimal64
+---n psu-iin-low-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?      decimal64
| +--ro iin-alert-threshold-min? decimal64
| +--ro iin-alert-threshold-max? decimal64
+---n psu-iin-high-alert
```

```

| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?     decimal64
| +--ro iin-alert-threshold-min? decimal64
| +--ro iin-alert-threshold-max? decimal64
+---n psu-iin-low-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?     decimal64
| +--ro iin-critical-threshold-min? decimal64
| +--ro iin-critical-threshold-max? decimal64
+---n psu-iin-high-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?     decimal64
| +--ro iin-critical-threshold-min? decimal64
| +--ro iin-critical-threshold-max? decimal64
+---n psu-iin-low-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?     decimal64
| +--ro iin-alert-threshold-min? decimal64
| +--ro iin-alert-threshold-max? decimal64
+---n psu-iin-high-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro input-current?     decimal64
| +--ro iin-alert-threshold-min? decimal64
| +--ro iin-alert-threshold-max? decimal64
+---n psu-iin-low-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t

```

```
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro input-current?       decimal64
| +--ro iin-critical-threshold-min? decimal64
| +--ro iin-critical-threshold-max? decimal64
+---n psu-iin-high-critical-recovery
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro input-current?       decimal64
| +--ro iin-critical-threshold-min? decimal64
| +--ro iin-critical-threshold-max? decimal64
+---n psu-temp1-low-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro temperature-sensor1? decimal64
| +--ro temp1-alert-threshold-min? decimal64
| +--ro temp1-alert-threshold-max? decimal64
+---n psu-temp1-high-alert
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro temperature-sensor1? decimal64
| +--ro temp1-alert-threshold-min? decimal64
| +--ro temp1-alert-threshold-max? decimal64
+---n psu-temp1-low-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro temperature-sensor1? decimal64
| +--ro temp1-critical-threshold-min? decimal64
| +--ro temp1-critical-threshold-max? decimal64
+---n psu-temp1-high-critical
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
```

```

| +--ro name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-critical-threshold-min?  decimal64
| +--ro temp1-critical-threshold-max?  decimal64
+---n psu-temp1-low-alert-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-alert-threshold-min?  decimal64
| +--ro temp1-alert-threshold-max?  decimal64
+---n psu-temp1-high-alert-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-alert-threshold-min?  decimal64
| +--ro temp1-alert-threshold-max?  decimal64
+---n psu-temp1-low-critical-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-critical-threshold-min?  decimal64
| +--ro temp1-critical-threshold-max?  decimal64
+---n psu-temp1-high-critical-recovery
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-critical-threshold-min?  decimal64
| +--ro temp1-critical-threshold-max?  decimal64
+---n psu-temp2-low-alert
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro name?                string

```

```
| +--ro temperature-sensor2?    decimal64
| +--ro temp2-alert-threshold-min? decimal64
| +--ro temp2-alert-threshold-max? decimal64
+---n psu-temp2-high-alert
| +--ro severity?              cml-data-types:cml_notif_severity_t
| +--ro eventClass?            cml-data-types:cml_notif_class_t
| +--ro name?                  string
| +--ro temperature-sensor2?    decimal64
| +--ro temp2-alert-threshold-min? decimal64
| +--ro temp2-alert-threshold-max? decimal64
+---n psu-temp2-low-critical
| +--ro severity?              cml-data-types:cml_notif_severity_t
| +--ro eventClass?            cml-data-types:cml_notif_class_t
| +--ro name?                  string
| +--ro temperature-sensor2?    decimal64
| +--ro temp2-critical-threshold-min? decimal64
| +--ro temp2-critical-threshold-max? decimal64
+---n psu-temp2-high-critical
| +--ro severity?              cml-data-types:cml_notif_severity_t
| +--ro eventClass?            cml-data-types:cml_notif_class_t
| +--ro name?                  string
| +--ro temperature-sensor2?    decimal64
| +--ro temp2-critical-threshold-min? decimal64
| +--ro temp2-critical-threshold-max? decimal64
+---n psu-temp2-low-alert-recovery
| +--ro severity?              cml-data-types:cml_notif_severity_t
| +--ro eventClass?            cml-data-types:cml_notif_class_t
| +--ro name?                  string
| +--ro temperature-sensor2?    decimal64
| +--ro temp2-alert-threshold-min? decimal64
| +--ro temp2-alert-threshold-max? decimal64
+---n psu-temp2-high-alert-recovery
| +--ro severity?              cml-data-types:cml_notif_severity_t
| +--ro eventClass?            cml-data-types:cml_notif_class_t
| +--ro name?                  string
| +--ro temperature-sensor2?    decimal64
```

```

| +--ro temp2-alert-threshold-min? decimal64
| +--ro temp2-alert-threshold-max? decimal64
+---n psu-temp2-low-critical-recovery
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name? string
| +--ro temperature-sensor2? decimal64
| +--ro temp2-critical-threshold-min? decimal64
| +--ro temp2-critical-threshold-max? decimal64
+---n psu-temp2-high-critical-recovery
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name? string
| +--ro temperature-sensor2? decimal64
| +--ro temp2-critical-threshold-min? decimal64
| +--ro temp2-critical-threshold-max? decimal64
+---n psu-temp3-low-alert
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name? string
| +--ro temperature-sensor3? decimal64
| +--ro temp3-alert-threshold-min? decimal64
| +--ro temp3-alert-threshold-max? decimal64
+---n psu-temp3-high-alert
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name? string
| +--ro temperature-sensor3? decimal64
| +--ro temp3-alert-threshold-min? decimal64
| +--ro temp3-alert-threshold-max? decimal64
+---n psu-temp3-low-critical
| +--ro severity? cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name? string
| +--ro temperature-sensor3? decimal64
| +--ro temp3-critical-threshold-min? decimal64

```

```
| +--ro temp3-critical-threshold-max?  decimal64
+---n psu-temp3-high-critical
| +--ro severity?                      cml-data-types:cml_notif_severity_t
| +--ro eventClass?                   cml-data-types:cml_notif_class_t
| +--ro name?                         string
| +--ro temperature-sensor3?          decimal64
| +--ro temp3-critical-threshold-min?  decimal64
| +--ro temp3-critical-threshold-max?  decimal64
+---n psu-temp3-low-alert-recovery
| +--ro severity?                      cml-data-types:cml_notif_severity_t
| +--ro eventClass?                   cml-data-types:cml_notif_class_t
| +--ro name?                         string
| +--ro temperature-sensor3?          decimal64
| +--ro temp3-alert-threshold-min?     decimal64
| +--ro temp3-alert-threshold-max?     decimal64
+---n psu-temp3-high-alert-recovery
| +--ro severity?                      cml-data-types:cml_notif_severity_t
| +--ro eventClass?                   cml-data-types:cml_notif_class_t
| +--ro name?                         string
| +--ro temperature-sensor3?          decimal64
| +--ro temp3-alert-threshold-min?     decimal64
| +--ro temp3-alert-threshold-max?     decimal64
+---n psu-temp3-low-critical-recovery
| +--ro severity?                      cml-data-types:cml_notif_severity_t
| +--ro eventClass?                   cml-data-types:cml_notif_class_t
| +--ro name?                         string
| +--ro temperature-sensor3?          decimal64
| +--ro temp3-critical-threshold-min?  decimal64
| +--ro temp3-critical-threshold-max?  decimal64
+---n psu-temp3-high-critical-recovery
| +--ro severity?                      cml-data-types:cml_notif_severity_t
| +--ro eventClass?                   cml-data-types:cml_notif_class_t
| +--ro name?                         string
| +--ro temperature-sensor3?          decimal64
| +--ro temp3-critical-threshold-min?  decimal64
| +--ro temp3-critical-threshold-max?  decimal64
```



```

+---n psu-temp4-low-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-alert-threshold-min? decimal64
| +--ro temp4-alert-threshold-max? decimal64
+---n psu-temp4-high-alert
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-alert-threshold-min? decimal64
| +--ro temp4-alert-threshold-max? decimal64
+---n psu-temp4-low-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-critical-threshold-min? decimal64
| +--ro temp4-critical-threshold-max? decimal64
+---n psu-temp4-high-critical
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-critical-threshold-min? decimal64
| +--ro temp4-critical-threshold-max? decimal64
+---n psu-temp4-low-alert-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-alert-threshold-min? decimal64
| +--ro temp4-alert-threshold-max? decimal64
+---n psu-temp4-high-alert-recovery

```

```
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-alert-threshold-min? decimal64
| +--ro temp4-alert-threshold-max? decimal64
+---n psu-temp4-low-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-critical-threshold-min? decimal64
| +--ro temp4-critical-threshold-max? decimal64
+---n psu-temp4-high-critical-recovery
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro name?              string
| +--ro temperature-sensor4? decimal64
| +--ro temp4-critical-threshold-min? decimal64
| +--ro temp4-critical-threshold-max? decimal64
+---n fan-status-alarm
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name?      string
| +--ro fan-index?  uint8
| +--ro fan-status? cml_cmm_fan_status_t
+---n fan-status-alarm-recovery
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name?      string
| +--ro fan-index?  uint8
| +--ro fan-status? cml_cmm_fan_status_t
+---n fan-rpm-max-alert
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name?      string
```

```

| +--ro maximum-rpm?  uint32
+---n fan-rpm-decreased-notify
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro name?        string
| +--ro rpm?         uint32
+---n fan-rpm-increased-notify
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro name?        string
| +--ro rpm?         uint32
+---n fan-tray-inserted
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro name?        string
+---n fan-tray-absent
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro name?        string
+---n hardware-tcam-util-warning-notification {feature-list:HAVE_BROADCOM}?
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro group-id?    uint32
| +--ro unit?        uint32
| +--ro core?        uint32
| +--ro group-name?   cml-data-types:cml_line_t
| +--ro used-percentage? int32
| +--ro free-entries? int32
+---n hardware-tcam-util-recovery-warning-notification {feature-list:HAVE_BROADCOM}?
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro group-id?    uint32
| +--ro unit?        uint32
| +--ro core?        uint32
| +--ro group-name?   cml-data-types:cml_line_t
| +--ro used-percentage? int32

```

```
| +--ro free-entries?    int32
+---n hardware-tcam-util-critical-notification {feature-list:HAVE_BROADCOM}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro group-id?       uint32
| +--ro unit?           uint32
| +--ro core?           uint32
| +--ro group-name?     cml-data-types:cml_line_t
| +--ro used-percentage? int32
| +--ro free-entries?    int32
+---n hardware-tcam-util-recovery-critical-notification {feature-list:HAVE_BROADCOM}?
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro group-id?       uint32
| +--ro unit?           uint32
| +--ro core?           uint32
| +--ro group-name?     cml-data-types:cml_line_t
| +--ro used-percentage? int32
| +--ro free-entries?    int32
+---n loss-of-input-clock
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro loss-of-input-clock-status? uint8
+---n usb-over-current
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro usb-over-current-status? uint8
+---n cmis-module-monitor-alarm-notification
| +--ro severity?       cml-data-types:cml_notif_severity_t
| +--ro eventClass?     cml-data-types:cml_notif_class_t
| +--ro name?           string
| +--ro alarm-id?       ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| +--ro alarm-type?     ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| +--ro current-value?  decimal64
```

```

| +--ro threshold-minimum?  decimal64
| +--ro threshold-maximum?  decimal64
+---n cmis-module-monitor-recovery-notification
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro name?               string
| +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| +--ro current-value?      decimal64
| +--ro threshold-minimum?  decimal64
| +--ro threshold-maximum?  decimal64
+---n cmis-module-host-monitor-alarm-notification
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro number?             uint8
| +--ro name?               string
| +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
| +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| +--ro current-value?      decimal64
| +--ro threshold-minimum?  decimal64
| +--ro threshold-maximum?  decimal64
+---n cmis-module-host-monitor-recovery-notification
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro number?             uint8
| +--ro name?               string
| +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
| +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| +--ro current-value?      decimal64
| +--ro threshold-minimum?  decimal64
| +--ro threshold-maximum?  decimal64
+---n cmis-module-host-flag-alarm-notification
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?         cml-data-types:cml_notif_class_t
| +--ro number?             uint8
| +--ro name?               string

```

```
| +--ro alarm-id?   ipi-platform-cmis-types:cmml_cmis_host_flag_id_t
+---n cmis-module-host-flag-recovery-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro number?     uint8
| +--ro name?       string
| +--ro alarm-id?   ipi-platform-cmis-types:cmml_cmis_host_flag_id_t
+---n cmis-module-media-monitor-alarm-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro number?     uint8
| +--ro name?       string
| +--ro alarm-id?   ipi-platform-cmis-types:cmml_cmis_media_monitor_id_t
| +--ro alarm-type? ipi-platform-cmis-types:cmml_cmis_threshold_alarm_t
| +--ro current-value? decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n cmis-module-media-monitor-recovery-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro number?     uint8
| +--ro name?       string
| +--ro alarm-id?   ipi-platform-cmis-types:cmml_cmis_media_monitor_id_t
| +--ro alarm-type? ipi-platform-cmis-types:cmml_cmis_threshold_alarm_t
| +--ro current-value? decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n cmis-module-media-flag-alarm-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro number?     uint8
| +--ro name?       string
| +--ro alarm-id?   ipi-platform-cmis-types:cmml_cmis_media_flag_id_t
+---n cmis-module-media-flag-recovery-notification
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
```

```
| +--ro number?      uint8
| +--ro name?        string
| +--ro alarm-id?    ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
+---n edfa-alarm-notification
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro port?        uint8
| +--ro name?        string
| +--ro alarm-id?    ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| +--ro alarm-type?  ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
| +--ro current-value? decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n edfa-alarm-recovery-notification
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro port?        uint8
| +--ro name?        string
| +--ro alarm-id?    ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| +--ro current-value? decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n smart-sfp-ddm-alarm-notification
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro port?        uint8
| +--ro name?        string
| +--ro alarm-id?    ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
| +--ro alarm-type?  ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
| +--ro current-value? decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n smart-sfp-ddm-alarm-recovery-notification
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro port?        uint8
```

```

| +--ro name?          string
| +--ro alarm-id?      ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
| +--ro current-value?  decimal64
| +--ro threshold-minimum? decimal64
| +--ro threshold-maximum? decimal64
+---n smart-sfp-descrete-alarm-notification
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro port?          uint8
| +--ro name?          string
| +--ro alarm-id?      ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
| +--ro current-status? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
+---n smart-sfp-descrete-alarm-recovery-notification
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro port?          uint8
  +--ro name?          string
  +--ro alarm-id?      ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
  +--ro current-status? ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t

```

ipi-port-breakout

```

+--rw port-breakout
  +--rw breakouts
    | +--rw breakout* [interface]
    |   +--rw interface -> ../config/interface
    |   +--rw config
    |     | +--rw interface? string
    |     | +--rw mode      ipi-port-breakout-types:port_breakout_mode_t
    |     | +--rw serdes?   ipi-port-breakout-types:port_breakout_serdes_type_t
    |     +--ro state
    |       +--ro interface? string
    |       +--ro mode      ipi-port-breakout-types:port_breakout_mode_t
    |       +--ro serdes?   ipi-port-breakout-types:port_breakout_serdes_type_t

```



```

|   +--ro block?    uint8
+--rw groups-speed
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?  -> /ipi-interface:interfaces/interface/name
      | +--rw mode?  ipi-port-breakout-types:port_breakout_if_mode_t
      +--ro state
        +--ro name?  -> /ipi-interface:interfaces/interface/name
        +--ro mode?  ipi-port-breakout-types:port_breakout_if_mode_t

```

ipi-port-mirror

```

+--rw port-mirror
  +--rw sessions
    | +--rw session* [id] {feature-list:HAVE_ADVANCE_MIRROR}?
    |   +--rw id          -> ../config/id
    |   +--rw config
    |     | +--rw id?      uint32
    |     | +--rw type      ipi-port-mirror-types:pmirror_sess_type_t
    |     | +--rw description? cml-data-types:cml_line_t
    |     +--ro state
    |       | +--ro counters
    |       | | +--ro filter-count?  yang:counter32
    |       | | +--ro tx-source-count? yang:counter32
    |       | +--ro id?      uint32
    |       | +--ro type      ipi-port-mirror-types:pmirror_sess_type_t
    |       | +--ro description? cml-data-types:cml_line_t
    |       +--rw destination
    |         | +--rw local
    |         | | +--rw config
    |         | | | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
    |         | | +--ro state
    |         | | +--ro interface-name? -> /ipi-interface:interfaces/interface/name

```

```

| | +--rw remote
| | | +--rw config!
| | | | +--rw vlan-id          uint16
| | | | +--rw reflector-interface-name -> /ipi-interface:interfaces/interface/name
| | | +--ro state
| | | | +--ro vlan-id          uint16
| | | | +--ro reflector-interface-name -> /ipi-interface:interfaces/interface/name
| | +--rw erspan
| | | +--rw config
| | | | +--rw name? string
| | | +--ro state
| | | | +--ro name? string
| | +--rw source-interfaces
| | | +--rw source-interface* [name]
| | | | +--rw name -> ../config/name
| | | | +--rw config!
| | | | | +--rw name? -> /ipi-interface:interfaces/interface/name
| | | | | +--rw direction ipi-port-mirror-types:pmirror_dir_t
| | | | +--ro state
| | | | | +--ro name? -> /ipi-interface:interfaces/interface/name
| | | | | +--ro direction ipi-port-mirror-types:pmirror_dir_t
| | +--rw session-filters
| | | +--rw session-filter* [sequence-id]
| | | | +--rw sequence-id -> ../config/sequence-id
| | | | +--rw config
| | | | | +--rw sequence-id? uint32
| | | | +--ro state
| | | | | +--ro sequence-id? uint32
| | | +--rw filters
| | | | +--rw config
| | | | | +--rw frame-type?          ipi-port-mirror-types:pmirror_ethertype_t
| | | | | +--rw arp-type?          ipi-port-mirror-types:pmirror_arp_type_t
| | | | | +--rw sender-ip-address?  inet:ipv4-address
| | | | | +--rw target-ip-address?  inet:ipv4-address
| | | | | +--rw cos?               uint8
| | | | | +--rw vlan?             cml-data-types:cml_range_t

```

```

| | | +--rw source-ipv4-address?      cml-data-types:cml_ipv4_addr_or_prefix_t
| | | +--rw destination-ipv4-address?  cml-data-types:cml_ipv4_addr_or_prefix_t
| | | +--rw source-ipv6-address?      cml-data-types:cml_ipv6_prefix_t
| | | +--rw destination-ipv6-address?  cml-data-types:cml_ipv6_prefix_t
| | | +--rw (source-mac-options)?
| | |   | +--:(host-mac)
| | |   | | +--rw source-mac-address-host?  ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | | +--:(mac-with-mask)
| | |   | |   +--rw source-mac-address?      ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | |   +--rw source-mac-mask?        ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | +--rw (destination-mac-options)?
| | |   |   +--:(host-mac)
| | |   | | +--rw destination-mac-address-host? ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | | +--:(mac-with-mask)
| | |   |   +--rw destination-mac-address?    ipi-port-mirror-types:pmirror_mac_addr_t
| | |   |   +--rw destination-mac-mask?      ipi-port-mirror-types:pmirror_mac_addr_t
| | | +--ro state
| | |   +--ro frame-type?                ipi-port-mirror-types:pmirror_ethertype_t
| | |   +--ro arp-type?                  ipi-port-mirror-types:pmirror_arp_type_t
| | |   +--ro sender-ip-address?          inet:ipv4-address
| | |   +--ro target-ip-address?          inet:ipv4-address
| | |   +--ro cos?                        uint8
| | |   +--ro vlan?                       cml-data-types:cml_range_t
| | |   +--ro source-ipv4-address?        cml-data-types:cml_ipv4_addr_or_prefix_t
| | |   +--ro destination-ipv4-address?    cml-data-types:cml_ipv4_addr_or_prefix_t
| | |   +--ro source-ipv6-address?        cml-data-types:cml_ipv6_prefix_t
| | |   +--ro destination-ipv6-address?    cml-data-types:cml_ipv6_prefix_t
| | |   +--ro (source-mac-options)?
| | |   | +--:(host-mac)
| | |   | | +--ro source-mac-address-host?  ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | | +--:(mac-with-mask)
| | |   | |   +--ro source-mac-address?      ipi-port-mirror-types:pmirror_mac_addr_t
| | |   | |   +--ro source-mac-mask?        ipi-port-mirror-types:pmirror_mac_addr_t
| | |   +--ro (destination-mac-options)?
| | |   | +--:(host-mac)
| | |   | | +--ro destination-mac-address-host? ipi-port-mirror-types:pmirror_mac_addr_t

```

```

| |      +--:(mac-with-mask)
| |      +--ro destination-mac-address?    ipi-port-mirror-types:pmirror_mac_addr_t
| |      +--ro destination-mac-mask?      ipi-port-mirror-types:pmirror_mac_addr_t
| +--rw source-vlans
| | +--rw config
| | | +--rw source-vlan?  cml-data-types:cml_range_t
| | | +--ro state
| |   +--ro source-vlan?  cml-data-types:cml_range_t
| +--rw session-enabled
|   +--rw config
|   | +--rw enabled?  empty
|   | +--ro state
|   | +--ro enabled?  empty
+--rw interfaces
+--rw erspan-destinations
| +--rw erspan-destination* [name] {feature-list:HAVE_ADVANCE_MIRROR}?
|   +--rw name      -> ../config/name
|   +--rw config!
|   | +--rw name?      string
|   | +--rw dest-ip?   inet:ip-address
|   | +--rw vrf-name?  string
|   | +--rw erspan-id? uint32
|   | +--rw origin-ip? inet:ip-address
|   | +--rw ttl?       uint16
|   | +--rw dscp?      uint8
|   | +--rw enable-truncate? boolean
|   | +--rw erspan-type? ipi-port-mirror-types:pmirror_erspan_type_t
|   | +--rw hardware-id? uint8
|   | +--rw switch-id?  uint16
|   +--ro state
|   | +--ro name?      string
|   | +--ro dest-ip?   inet:ip-address
|   | +--ro vrf-name?  string
|   | +--ro erspan-id? uint32
|   | +--ro origin-ip? inet:ip-address
|   | +--ro ttl?       uint16

```

```

|   +--ro dscp?          uint8
|   +--ro enable-truncate?  boolean
|   +--ro erspan-type?     ipi-port-mirror-types:pmirror_erspan_type_t
|   +--ro hardware-id?     uint8
|   +--ro switch-id?      uint16
+--rw global
  +--rw config
  +--ro state

```

ipi-port-vlan

augment /ipi-interface:interfaces/ipi-interface:interface:

```

+--rw port-vlan
  +--rw global
  | +--rw config
  | | +--rw isolated-vlan-id?      cml-data-types:cml_range_t {feature-list:NOT_HAVE_SWFWDR}?
  | | +--rw cvlan-registration-table? -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/
  | |   ipi-vlan:cvlan-registration-tables/cvlan-registration-table/config/table-name {feature-list:HAVE_PROVIDER_BRIDGE}?
  | +--ro state
  | +--ro isolated-vlan-id?      cml-data-types:cml_range_t {feature-list:NOT_HAVE_SWFWDR}?
  | +--ro cvlan-registration-table? -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/
  | |   ipi-vlan:cvlan-registration-tables/cvlan-registration-table/config/table-name {feature-list:HAVE_PROVIDER_BRIDGE}?
  +--rw ennis
  +--rw switched-vlans
  | +--rw switched-vlan* [interface-mode]
  | +--rw interface-mode      -> ../config/interface-mode
  | +--rw config
  | | +--rw interface-mode?      ipi-port-vlan-types:port_vlan_switch_port_mode_t
  | | +--rw acceptable-frame-type? ipi-port-vlan-types:port_vlan_frame_type_t
  | | +--rw disable-native-vlan?  empty
  | | +--rw remove-default-vlan?  empty
  | +--ro state
  | | +--ro interface-mode?      ipi-port-vlan-types:port_vlan_switch_port_mode_t
  | | +--ro acceptable-frame-type? ipi-port-vlan-types:port_vlan_frame_type_t

```

```

| | +--ro disable-native-vlan?  empty
| | +--ro remove-default-vlan?  empty
| +--rw vlans
| | +--rw config
| | | +--rw vlan-id?          uint16
| | | +--rw native-vlan-id?   uint16
| | +--ro state
| |   +--ro vlan-id?          uint16
| |   +--ro native-vlan-id?   uint16
| +--rw allowed-vlan
| | +--rw config
| | | +--rw allowed-vlan-id?      cml-data-types:cml_range_t
| | | +--rw egress-tagging-disabled-vlans? cml-data-types:cml_range_t
| | +--ro state
| |   +--ro allowed-vlan-id?      cml-data-types:cml_range_t
| |   +--ro egress-tagging-disabled-vlans? cml-data-types:cml_range_t
| +--rw ce-vlan-translations
| +--rw svlan-translations
| | +--rw svlan-translation* [original-svlan-id] {feature-list:HAVE_PROVIDER_BRIDGE}?
| |   +--rw original-svlan-id  -> ../config/original-svlan-id
| |   +--rw config
| |     | +--rw translated-svlan-id?  uint16
| |     | +--rw original-svlan-id?   uint16
| |     | +--rw translated-cvlan-id?  uint16
| |     +--ro state
| |       +--ro translated-svlan-id?  uint16
| |       +--ro original-svlan-id?   uint16
| |       +--ro translated-cvlan-id?  uint16
| +--rw cvlan-svlan-translations
|   +--rw cvlan-svlan-translation* [cvlan-id svlan-id] {feature-list:HAVE_PROVIDER_BRIDGE}?
|   +--rw cvlan-id  -> ../config/cvlan-id
|   +--rw svlan-id  -> ../config/svlan-id
|   +--rw config
|     | +--rw cvlan-id?          uint16
|     | +--rw svlan-id?          uint16
|     | +--rw translated-cvlan-id?  uint16

```

```

|      | +--rw translated-svlan-id  uint16
|      +--ro state
|      +--ro cvlan-id?              uint16
|      +--ro svlan-id?              uint16
|      +--ro translated-cvlan-id?   uint16
|      +--ro translated-svlan-id    uint16
+--rw port-security
| +--rw config!
| | +--rw mode          ipi-port-vlan-types:port_vlan_port_sec_mode_t
| | +--rw maximum-limit? uint16
| | +--rw logging?      empty
| +--ro state
| | +--ro mode          ipi-port-vlan-types:port_vlan_port_sec_mode_t
| | +--ro maximum-limit? uint16
| | +--ro logging?      empty
| +--rw secure-mac {feature-list:HAVE_PROVIDER_BRIDGE}?
|   +--rw default-vlan-mappings
|     | +--rw default-vlan-mapping* [mac-address]
|     |   +--rw mac-address  -> ../config/mac-address
|     |   +--rw config
|     |     | +--rw mac-address?  cml-data-types:cml_mac_addr_t
|     |     | +--ro state
|     |     |   +--ro mac-address? cml-data-types:cml_mac_addr_t
|     +--rw vlan-mappings
|       | +--rw vlan-mapping* [mac-address]
|       |   +--rw mac-address  -> ../config/mac-address
|       |   +--rw config
|       |     | +--rw mac-address? cml-data-types:cml_mac_addr_t
|       |     | +--rw cvlan-id*    uint16
|       |     | +--rw svlan-id*    uint16
|       |     +--ro state
|       |       +--ro mac-address? cml-data-types:cml_mac_addr_t
|       |       +--ro cvlan-id*    uint16
|       |       +--ro svlan-id*    uint16
|     +--rw cvlan-svlan-mappings
|       +--rw cvlan-svlan-mapping* [mac-address cvlan-id svlan-id]

```

```

|     +--rw mac-address   -> ../config/mac-address
|     +--rw cvlan-id      -> ../config/cvlan-id
|     +--rw svlan-id      -> ../config/svlan-id
|     +--rw config
|       | +--rw mac-address?  cml-data-types:cml_mac_addr_t
|       | +--rw cvlan-id?     uint16
|       | +--rw svlan-id?     uint16
|       +--ro state
|         +--ro mac-address?  cml-data-types:cml_mac_addr_t
|         +--ro cvlan-id?     uint16
|         +--ro svlan-id?     uint16
+--rw private-vlan {feature-list:HAVE_PVLAN}?
| +--rw config!
| | +--rw mode   ipi-port-vlan-types:port_vlan_pvlan_mode_t
| +--ro state
| | +--ro mode   ipi-port-vlan-types:port_vlan_pvlan_mode_t
+--rw associations
| +--rw association* [vlan-id]
|   +--rw vlan-id   -> ../config/vlan-id
|   +--rw config
|     | +--rw vlan-id?           uint16
|     | +--rw associate-vlan-id? uint16
|     | +--rw mapping-vlan-id?   cml-data-types:cml_range_t
|     | +--rw association-trunk-vlan-id? uint16
|     +--ro state
|       +--ro vlan-id?           uint16
|       +--ro associate-vlan-id? uint16
|       +--ro mapping-vlan-id?   cml-data-types:cml_range_t
|       +--ro association-trunk-vlan-id? uint16
+--rw oep-mappings
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
+--rw vlan-static-fdb
+--rw entries
+--rw entry* [mac-address vlan-id]
+--rw mac-address   -> ../config/mac-address
+--rw vlan-id       -> ../config/vlan-id

```

```

+--rw config
| +--rw interface-name -> /ipi-interface:interfaces/interface/name
| +--rw mac-address?   cml-data-types:cml_mac_addr_t
| +--rw action         ipi-port-vlan-types:port_vlan_l2_fdb_action_t
| +--rw vlan-id?       uint16
| +--rw svlan-id?      uint16 {feature-list:HAVE_PB_STATIC_FDB_CUSTOM_CONFIG}?
+--ro state
  +--ro interface-name -> /ipi-interface:interfaces/interface/name
  +--ro mac-address?   cml-data-types:cml_mac_addr_t
  +--ro action         ipi-port-vlan-types:port_vlan_l2_fdb_action_t
  +--ro vlan-id?       uint16
  +--ro svlan-id?      uint16 {feature-list:HAVE_PB_STATIC_FDB_CUSTOM_CONFIG}?

```

ipi-prefix-group

```

+--rw prefix-groups
  +--rw prefix-group* [type name]
    +--rw type -> ../config/type
    +--rw name -> ../config/name
    +--rw config
      | +--rw type? ipi-prefix-group-types:prefix_group_type_t
      | +--rw name? string
      | +--rw description? cml-data-types:cml_line_t
    +--ro state
      | +--ro type? ipi-prefix-group-types:prefix_group_type_t
      | +--ro name? string
      | +--ro description? cml-data-types:cml_line_t
    +--rw ipv4-entries
      | +--rw config
      | | +--rw ipv4-entry* cml-data-types:cml_ipv4_addr_prefix_t
      | | +--rw ipv4-match-xpath-entry? string
      | +--ro state
      | +--ro ipv4-entry* cml-data-types:cml_ipv4_addr_prefix_t
      | +--ro ipv4-match-xpath-entry? string
      | +--ro ipv4-prefixes* cml-data-types:cml_ipv4_addr_prefix_t

```

```

+--rw ipv6-entries {feature-list:HAVE_IPV6}?
  +--rw config
    | +--rw ipv6-entry*          cml-data-types:cml_ipv6_prefix_t
    | +--rw ipv6-match-xpath-entry? string
  +--ro state
    +--ro ipv6-entry*          cml-data-types:cml_ipv6_prefix_t
    +--ro ipv6-match-xpath-entry? string
    +--ro ipv6-prefixes*       cml-data-types:cml_ipv6_prefix_t

```

ipi-prefix-list

```

+--rw prefixes
  +--rw prefix* [prefix-list-name prefix-list-type]
    +--rw prefix-list-name -> ../config/prefix-list-name
    +--rw prefix-list-type -> ../config/prefix-list-type
  +--rw config
    | +--rw prefix-list-name? string
    | +--rw prefix-list-type? ipi-prefix-list-types:prefix_list_type_t
    | +--rw description?      cml-data-types:cml_line_t
  +--ro state
    | +--ro prefix-list-name? string
    | +--ro prefix-list-type? ipi-prefix-list-types:prefix_list_type_t
    | +--ro description?      cml-data-types:cml_line_t
  +--rw prefix-entries
    +--rw prefix-entry* [sequence-id]
      +--rw sequence-id -> ../config/sequence-id
      +--rw config
        | +--rw sequence-id? uint32
      +--ro state
        | +--ro sequence-id? uint32
      +--rw ipv4
        | +--rw entry* [action prefix-addr]
        |   +--rw action -> ../config/action
        |   +--rw prefix-addr -> ../config/prefix-addr
        |   +--rw config

```

```
| | +--rw action?          ipi-prefix-list-types:prefix_list_action_t
| | +--rw minimum-prefix-length-match? uint8
| | +--rw maximum-prefix-length-match? uint8
| | +--rw prefix-addr?      ipi-prefix-list-types:prefix_list_ipv4_network_t
| | +--rw exact-prefix-length-match? uint8
| +--ro state
|   +--ro action?          ipi-prefix-list-types:prefix_list_action_t
|   +--ro minimum-prefix-length-match? uint8
|   +--ro maximum-prefix-length-match? uint8
|   +--ro prefix-addr?      ipi-prefix-list-types:prefix_list_ipv4_network_t
|   +--ro exact-prefix-length-match? uint8
+--rw ipv6 {feature-list:HAVE_IPV6}?
  +--rw entry* [action ipv6-prefix-addr] {feature-list:HAVE_IPV6}?
    +--rw action          -> ../config/action
    +--rw ipv6-prefix-addr -> ../config/ipv6-prefix-addr
    +--rw config {feature-list:HAVE_IPV6}?
      | +--rw ipv6-prefix-addr?      ipi-prefix-list-types:prefix_list_ipv6_network_t
      | +--rw action?              ipi-prefix-list-types:prefix_list_action_t
      | +--rw minimum-prefix-length-match? uint8
      | +--rw maximum-prefix-length-match? uint8
      | +--rw exact-prefix-length-match? uint8
      +--ro state {feature-list:HAVE_IPV6}?
        +--ro ipv6-prefix-addr?      ipi-prefix-list-types:prefix_list_ipv6_network_t
        +--ro action?              ipi-prefix-list-types:prefix_list_action_t
        +--ro minimum-prefix-length-match? uint8
        +--ro maximum-prefix-length-match? uint8
        +--ro exact-prefix-length-match? uint8
```

rpcs:

```
+---x clear-prefix-list-all
+---x clear-prefix-list-ipv6-all
+---x clear-ipv4-prefix-list
| +---w input
|   +---w prefix-list-name string
|   +---w prefix?          cml-data-types:cml_ipv4_addr_prefix_t
+---x clear-ipv6-prefix-list {feature-list:HAVE_IPV6}?
```

```

+---w input
  +---w prefix-list-name  string
  +---w prefix?           cml-data-types:cml_ipv6_prefix_t

```

ipi-ptp

```

+--rw ptp {feature-list:HAVE_PTP_HW_OFFLOAD}?
  +--rw ptp-instances
    | +--rw ptp-instance* [instance-type]
    |   +--rw instance-type    -> ../config/instance-type
    |   +--rw config
    |     | +--rw instance-type?  uint8
    |     | +--rw profile        ipi-ptp-types:ptp_profile_t
    |     +--rw tlv {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
    |       | +--rw config
    |       |   | +--rw color-frame?  empty
    |       |   | +--rw drop-frame?   empty
    |       |   | +--rw numerator?    uint32
    |       |   | +--rw denominator?  uint32
    |       |   +--ro state
    |       |     +--ro color-frame?  empty
    |       |     +--ro drop-frame?   empty
    |       |     +--ro numerator?    uint32
    |       |     +--ro denominator?  uint32
    |     +--rw default-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |       | +--rw config
    |       |   | +--rw l2-pkt-forward?      empty
    |       |   | +--rw domain?              uint8
    |       |   | +--rw servo-config?        ipi-ptp-types:ptp_servo_config_type_t
    |       |   | +--rw external-clock-holdover-duration?  uint16
    |       |   | +--rw system-clock-sync?    uint16
    |       |   | +--rw ptp-clock-sync?      empty
    |       |   | +--rw ptsf-wtr-duration?    uint16
    |       |   | +--rw g8265p1-wtr-duration? uint64

```

```

|   |   | +--rw g8265p1-option?          ipi-ptp-types:ptp_g8265p1_option_type_t
|   |   | +--rw reserved-vlan-base?      uint16
|   |   | +--rw two-step?                empty {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
|   |   | +--rw clock-type-tgm?          ipi-ptp-types:ptp_clock_type_tgm_t
|   |   | +--rw one-way?                 empty
|   |   | +--rw number-ports?            uint8
|   |   | +--rw pps-pulse-offset?        int16
|   |   | +--rw pps-in-smx-tod-type?     ipi-ptp-types:ptp_1pss_in_smx_tod_type_t
|   |   | +--rw priority-1?              uint8
|   |   | +--rw priority-2?              uint8
|   |   | +--rw slave-only?              empty
|   |   | +--rw local-priority?           uint8
|   |   | +--rw max-steps-removed?        uint8
|   |   | +--rw start-boundary-hops?      uint8
|   |   | +--ro state
|   |   | +--ro l2-pkt-forward?           empty
|   |   | +--ro domain?                  uint8
|   |   | +--ro servo-config?             ipi-ptp-types:ptp_servo_config_type_t
|   |   | +--ro external-clock-holdover-duration? uint16
|   |   | +--ro system-clock-sync?        uint16
|   |   | +--ro ptp-clock-sync?           empty
|   |   | +--ro ptsf-wtr-duration?        uint16
|   |   | +--ro g8265p1-wtr-duration?     uint64
|   |   | +--ro g8265p1-option?          ipi-ptp-types:ptp_g8265p1_option_type_t
|   |   | +--ro reserved-vlan-base?      uint16
|   |   | +--ro two-step?                empty {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
|   |   | +--ro clock-type-tgm?          ipi-ptp-types:ptp_clock_type_tgm_t
|   |   | +--ro one-way?                 empty
|   |   | +--ro number-ports?            uint8
|   |   | +--ro pps-pulse-offset?        int16
|   |   | +--ro pps-in-smx-tod-type?     ipi-ptp-types:ptp_1pss_in_smx_tod_type_t
|   |   | +--ro priority-1?              uint8
|   |   | +--ro priority-2?              uint8
|   |   | +--ro slave-only?              empty
|   |   | +--ro local-priority?           uint8

```

```

| | | +--ro max-steps-removed?          uint8
| | | +--ro start-boundary-hops?        uint8
| | | +--ro clock-identity?             string
| | +--rw servo-history
| | | +--rw config!
| | | | +--rw servo-history-enabled    empty
| | | | +--rw servo-history-interval  uint8
| | | +--ro state
| | | | +--ro servo-history-enabled    empty
| | | | +--ro servo-history-interval  uint8
| | +--rw clock-quality
| | | +--rw config
| | | | +--rw clock-class?             uint8
| | | | +--rw clock-accuracy?          uint8
| | | | +--rw offset-scaled-log-variance? uint16
| | | +--ro state
| | | | +--ro clock-class?             uint8
| | | | +--ro clock-accuracy?          uint8
| | | | +--ro offset-scaled-log-variance? uint16
| | +--rw gps-offset
| | | +--rw config!
| | | | +--rw offset-seconds           int8
| | | | +--rw offset-nano-seconds     int16
| | | +--ro state
| | | | +--ro offset-seconds           int8
| | | | +--ro offset-nano-seconds     int16
| +--rw ports {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | +--rw port* [port-number]
| | | +--rw port-number                -> ../config/port-number
| | | +--rw config
| | | | +--rw port-number?             uint16
| | | | +--rw local-priority?          uint8
| | | | +--rw description?             cml-data-types:cml_line_t
| | | | +--rw transport-type?          ipi-ptp-types:ptp_encap_type_t
| | | | +--rw transport-v6-multicast-type? ipi-ptp-types:ptp_v6_multicast_type_t
| | | | +--rw non-forwardable-mac-addr? empty

```

```

| | | +--rw log-min-delay-req-interval?   int8
| | | +--rw log-announce-interval?       int8
| | | +--rw announce-receipt-timeout?    uint8
| | | +--rw log-sync-interval?           int8
| | | +--rw time-to-live?                 uint8
| | | +--rw ip-dscp?                      uint8
| | | +--rw unicast-grant-duration?       uint16
| | | +--rw delay-mechanism?              ipi-ptp-types:ptp_delay_mechanism_t
| | | +--rw version-number?               int8
| | | +--rw master-only?                  empty
| | | +--rw grandmaster-priority-2?      uint8
| | | +--rw append?                       empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | | +--rw process?                      empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | | +--rw source-ipv6-link-local-address? empty {feature-list:HAVE_IPV6}?
| | | +--rw source-ipv6-interface-address? string {feature-list:HAVE_IPV6}?
| | | +--rw source-ipv4-interface-address? string
| | | +--rw source-ipv6-address?          inet:ipv6-address {feature-list:HAVE_IPV6}?
| | | +--rw source-ipv4-address?          inet:ipv4-address
| | +--ro state
| | | +--ro port-number?                  uint16
| | | +--ro local-priority?               uint8
| | | +--ro description?                  cml-data-types:cml_line_t
| | | +--ro transport-type?               ipi-ptp-types:ptp_encap_type_t
| | | +--ro transport-v6-multicast-type? ipi-ptp-types:ptp_v6_multicast_type_t
| | | +--ro non-forwardable-mac-addr?     empty
| | | +--ro log-min-delay-req-interval?   int8
| | | +--ro log-announce-interval?       int8
| | | +--ro announce-receipt-timeout?    uint8
| | | +--ro log-sync-interval?           int8
| | | +--ro time-to-live?                 uint8
| | | +--ro ip-dscp?                      uint8
| | | +--ro unicast-grant-duration?       uint16
| | | +--ro delay-mechanism?              ipi-ptp-types:ptp_delay_mechanism_t
| | | +--ro version-number?               int8
| | | +--ro master-only?                  empty
| | | +--ro grandmaster-priority-2?      uint8

```

```

| | | +--ro append?          empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | | +--ro process?         empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
| | | +--ro port-state?      ipi-ptp-types:ptp_port_state_t
| | | +--ro peer-mean-path-delay? ipi-ptp-types:ptp_time_interval_t
| | | +--ro signal-fail?     boolean
| | | +--ro port-identity?   string
| | +--rw clock-quality
| | | +--rw config
| | | | +--rw clock-class?    uint8
| | | | +--rw clock-accuracy? uint8
| | | | +--rw offset-scaled-log-variance? uint16
| | | +--ro state
| | |   +--ro clock-class?    uint8
| | |   +--ro clock-accuracy? uint8
| | |   +--ro offset-scaled-log-variance? uint16
| | +--rw asymmetry-delay
| | | +--rw config!
| | | | +--rw delay-asymmetry-msec int8
| | | | +--rw delay-asymmetry-nsec int32
| | | +--ro state
| | |   +--ro delay-asymmetry-msec int8
| | |   +--ro delay-asymmetry-nsec int32
| | +--rw network-interfaces
| | | +--rw network-interface* [network-interface]
| | |   +--rw network-interface -> ../config/network-interface
| | |   +--rw config
| | | | +--rw network-interface? ipi-ptp-types:ptp_network_interface_t
| | | | +--rw vlan-physical-interface-name? cml-data-types:cml_ifname_t
| | | | +--rw vlan-physical-dot1q-vlan-id? uint16
| | | | +--rw dot1q-vlan-id?    uint16
| | | | +--rw dot1ad-vlan-id?   uint16
| | | | +--rw inner-dot1q-vlan-id? uint16
| | | +--ro state
| | |   +--ro network-interface? ipi-ptp-types:ptp_network_interface_t
| | |   +--ro vlan-physical-interface-name? cml-data-types:cml_ifname_t
| | |   +--ro vlan-physical-dot1q-vlan-id? uint16

```

```

| | | +--ro dot1q-vlan-id?          uint16
| | | +--ro dot1ad-vlan-id?         uint16
| | | +--ro inner-dot1q-vlan-id?    uint16
| | +--rw master-ipv4-addresses
| | | +--rw master-ipv4-address* [master-clock-source-ipv4-address]
| | | +--rw master-clock-source-ipv4-address -> ../config/master-clock-source-ipv4-address
| | | +--rw config
| | | | +--rw master-clock-source-ipv4-address? inet:ipv4-address
| | | | +--rw master-ipv4-address-priority?    uint8
| | | +--ro state
| | | +--ro master-clock-source-ipv4-address? inet:ipv4-address
| | | +--ro master-ipv4-address-priority?    uint8
| | +--rw master-ipv6-addresses
| | | +--rw master-ipv6-address* [master-clock-source-ipv6-address]
| | | +--rw master-clock-source-ipv6-address -> ../config/master-clock-source-ipv6-address
| | | +--rw config
| | | | +--rw master-clock-source-ipv6-address? inet:ipv6-address
| | | | +--rw master-ipv6-address-priority?    uint8
| | | +--ro state
| | | +--ro master-clock-source-ipv6-address? inet:ipv6-address
| | | +--ro master-ipv6-address-priority?    uint8
| | +--rw statistics
| | | +--ro state
| | | +--ro packets-transmitted? yang:counter32
| | | +--ro packets-received?   yang:counter32
| | | +--ro packets-discarded?  yang:counter32
| | +--ro foreign-data-sets
| | | +--ro foreign-data-set* [foreign-master-id]
| | | +--ro foreign-master-id -> ../state/foreign-master-id
| | | +--ro state
| | | +--ro foreign-master-id?    uint8
| | | +--ro current?              boolean
| | | +--ro ipv4-address?         inet:ipv4-address
| | | +--ro ipv6-address?         inet:ipv6-address {feature-list:HAVE_IPV6}?
| | | +--ro l2-address?           yang:mac-address
| | | +--ro clock-identity?       string

```

```

| | | +--ro port-id?          string
| | | +--ro clock-class?      uint8
| | | +--ro clock-accuracy?   uint8
| | | +--ro offset-scaled-log-variance? uint16
| | | +--ro priority-1?       uint8
| | | +--ro priority-2?       uint8
| | | +--ro steps-removed?     uint16
| | | +--ro pdv-scaled-allan-variance? uint64
| | +--ro peer-data-sets
| | | +--ro peer-data-set* [peer-id]
| | | +--ro peer-id -> ../state/peer-id
| | | +--ro state
| | | +--ro peer-id?          uint8
| | | +--ro ipv4-address?      inet:ipv4-address
| | | +--ro ipv6-address?      inet:ipv6-address {feature-list:HAVE_IPV6}?
| | | +--ro l2-address?        yang:mac-address
| | | +--ro clock-identity?    string
| | | +--ro received-announce? yang:counter64
| | | +--ro received-sync?     yang:counter64
| | | +--ro received-followup? yang:counter64
| | | +--ro received-reject?   yang:counter64
| | | +--ro received-delay-request? yang:counter64
| | | +--ro received-delay-response? yang:counter64
| | | +--ro received-management? yang:counter64
| | | +--ro received-signaling? yang:counter64
| | | +--ro transmitted-announce? yang:counter64
| | | +--ro transmitted-sync?   yang:counter64
| | | +--ro transmitted-followup? yang:counter64
| | | +--ro transmitted-delay-request? yang:counter64
| | | +--ro transmitted-delay-response? yang:counter64
| | | +--ro transmitted-management? yang:counter64
| | | +--ro transmitted-signaling? yang:counter64
| | +--ro master-data-sets
| | | +--ro master-data-set* [master-id]
| | | +--ro master-id -> ../state/master-id
| | | +--ro state

```

```

| | | +--ro master-id?   uint8
| | | +--ro ipv4-address? inet:ipv4-address
| | | +--ro ipv6-address? inet:ipv6-address {feature-list:HAVE_IPV6}?
| | +--ro slave-data-sets
| | | +--ro slave-data-set* [slave-id]
| | | +--ro slave-id   -> ../state/slave-id
| | | +--ro state
| | |   +--ro slave-id?           uint8
| | |   +--ro ipv4-address?       inet:ipv4-address
| | |   +--ro ipv6-address?       inet:ipv6-address {feature-list:HAVE_IPV6}?
| | |   +--ro clock-identity?     string
| | |   +--ro delay-mechanism?    ipi-ptp-types:ptp_delay_mechanism_t
| | |   +--ro log-announce-interval? int8
| | |   +--ro log-sync-interval?  int8
| | |   +--ro log-delay-request-interval? int8
| | +--rw drop-counters
| |   +--ro state
| |     +--ro domain-mismatch?    yang:counter32
| |     +--ro memory-alloc-failure? yang:counter32
| |     +--ro pkt-len-too-short?   yang:counter32
| |     +--ro pkt-rcvd-on-bad-port-state? yang:counter32
| |     +--ro pkt-profile-mismatch? yang:counter32
| |     +--ro clock-port-mismatch? yang:counter32
| |     +--ro ptp-packet-parsing-failure? yang:counter32
| |     +--ro delreq-from-unknown-slave? yang:counter32
| |     +--ro announce-on-master-only-port? yang:counter32
| |     +--ro invalid-steps-removed-field? yang:counter32
| |     +--ro unknown-unicast-master? yang:counter32
| |     +--ro announce-on-gps-ptp-port? yang:counter32
| |     +--ro sync-rcvd-invalid?    yang:counter32
| |     +--ro sync-rcvd-without-master? yang:counter32
| +--rw time-of-day {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | +--rw config
| | | +--rw io-type? ipi-ptp-types:ptp_clock_io_type_t
| | | +--ro state
| |   +--ro io-type? ipi-ptp-types:ptp_clock_io_type_t

```

```

|   +--rw ptp-servo {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|   |   +--ro state
|   |   +--ro previous-state?      ipi-ptp-types:ptp_servo_state_t
|   |   +--ro previous-servo-state? ipi-ptp-types:ptp_servo_state_custom_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
|   |   +--ro servo-config?        string
|   |   +--ro servo-state?          string
|   |   +--ro duration?             string
|   |   +--ro apts-mode?            ipi-ptp-types:ptp_servo_apts_mode_t
|   |   +--ro freq-correction?      decimal64
|   |   +--ro phase-correction?     decimal64
|   |   +--ro mean-path-delay?      ipi-ptp-types:ptp_time_interval_t
|   |   +--ro apts-gps-to-ptp-offset? ipi-ptp-types:ptp_time_interval_t
|   |   +--ro offset-from-master?   decimal64
|   |   +--ro sync-packet-rate?     uint32
|   |   +--ro delay-packet-rate?    uint32
|   +--rw current-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|   |   +--ro state
|   |   +--ro steps-removed?        uint8
|   |   +--ro offset-from-master?    ipi-ptp-types:ptp_time_interval_t
|   |   +--ro offset-from-master-in-nsec? decimal64
|   |   +--ro mean-path-delay?      ipi-ptp-types:ptp_time_interval_t
|   +--rw parent-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|   |   +--ro state
|   |   |   +--ro parent-stats-enabled?      boolean
|   |   |   +--ro parent-offset-scaled-log-variance? uint16
|   |   |   +--ro parent-phase-change-rate?   uint32
|   |   |   +--ro grandmaster-identity?      ipi-ptp-types:ptp_clock_identity_t
|   |   |   +--ro grandmaster-priority-1?     uint8
|   |   |   +--ro grandmaster-priority-2?     uint8
|   |   |   +--ro port-identity
|   |   |   |   +--ro clock-identity? string
|   |   |   |   +--ro port-number?   uint16
|   |   |   +--ro grandmaster-clock-quality
|   |   |   |   +--ro clock-class?      uint8
|   |   |   |   +--ro clock-accuracy?   uint8
|   |   |   |   +--ro offset-scaled-log-variance? uint16

```

```

| | +--rw port-identity
| | | +--ro state
| | |   +--ro clock-identity?  string
| | |   +--ro port-number?    uint16
| | +--rw grandmaster-clock-quality
| |   +--ro state
| |     +--ro clock-class?      uint8
| |     +--ro clock-accuracy?   uint8
| |     +--ro offset-scaled-log-variance?  uint16
| +--rw time-properties {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | +--ro state
| |   +--ro current-utc-offset-valid?  boolean
| |   +--ro current-utc-offset?        int16
| |   +--ro leap59?                     empty
| |   +--ro leap61?                     empty
| |   +--ro time-traceable?             empty
| |   +--ro frequency-traceable?        empty
| |   +--ro ptp-timescale?              empty
| |   +--ro time-source?                ipi-ptp-types:ptp_time_source_t
| |   +--ro ptp-time-of-day?            string
| +--rw statistics {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | +--ro state
| |   +--ro packets-transmitted?  yang:counter32
| |   +--ro packets-received?    yang:counter32
| |   +--ro packets-discarded?   yang:counter32
| |   +--ro ipv4-packets-received? yang:counter32
| |   +--ro ipv6-packets-received? yang:counter32 {feature-list:HAVE_IPV6}?
| |   +--ro l2-packets-received?  yang:counter32
| |   +--ro rx-queue-overflows?   yang:counter32
| +--ro servo-history-data {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | +--ro servo-history-data-entry* [entry-id]
| |   +--ro entry-id  -> ../state/entry-id
| |   +--ro state
| |     +--ro entry-id?      uint8
| |     +--ro timestamp?     string
| |     +--ro phase-correction?  decimal64

```

```

| |    +--ro frequency-correction?  decimal64
| +--rw utc-offset-dates
|   +--rw utc-offset-date* [utc-date]
|     | +--rw utc-date   -> ../config/utc-date
|     | +--rw config
|     | | +--rw utc-date?    string
|     | | +--rw offset-seconds  uint8
|     | +--ro state
|     |   +--ro utc-date?    string
|     |   +--ro offset-seconds  uint8
|   +--rw baseline
|     +--rw config
|       | +--rw baseline-seconds?  uint8
|       +--ro state
|         +--ro baseline-seconds?  uint8
+--rw debug
| +--rw config
| | +--rw enable?  empty
| +--ro state
|   +--ro enable?          empty
|   +--ro terminal-debug-status?  cml-data-types:cml_on_off_t
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name  -> ../config/interface-name
    +--rw config
    | +--rw interface-name?  -> /ipi-interface:interfaces/interface/name
    | +--rw hw-timestamp?    empty {feature-list:HAVE_DUNE}?
    +--ro state
      +--ro interface-name?  -> /ipi-interface:interfaces/interface/name
      +--ro hw-timestamp?    empty {feature-list:HAVE_DUNE}?

rpcs:
  +---x ptp-clear-statistics {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_PTPD,feature-
list:HAVE_DUNE_OR_HAVE_MARVELL}?
    | +---w input
    |   +---w clear-clock  uint8
  +---x ptp-terminal-debug-on {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?

```

+---x ptp-terminal-debug-off {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?

notifications:

+---n ptp-servo-state-change-notify {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?

| +--ro severity? cml-data-types:cml_notif_severity_t

| +--ro eventClass? cml-data-types:cml_notif_class_t

| +--ro instance-type? uint8

| +--ro previous-state? ipi-ptp-types:ptp_servo_state_t

| +--ro servo-state? string

+---n ptp-servo-state-change-custom1-notify {feature-list:HAVE_DUNE,feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?

+--ro severity? cml-data-types:cml_notif_severity_t

+--ro eventClass? cml-data-types:cml_notif_class_t

+--ro instance-type? uint8

+--ro previous-servo-state? ipi-ptp-types:ptp_servo_state_custom_t

+--ro servo-state? string

ipi-qos-if

augment /ipi-qos:qos:

+--rw interfaces

+--rw interface* [name]

+--rw name -> ../config/name

+--rw config

| +--rw name? -> /ipi-interface:interfaces/interface/name

| +--rw untagged-priority? uint8

| +--rw trust-dscp? empty

| +--rw lag-shaper? ipi-qos-types:qos_lag_shaper_t {feature-list:HAVE_DNX}?

| +--rw lag-shaper-unit? uint8 {feature-list:HAVE_DNX}?

+--ro state

| +--ro name? -> /ipi-interface:interfaces/interface/name

| +--ro untagged-priority? uint8

| +--ro trust-dscp? empty

| +--ro lag-shaper? ipi-qos-types:qos_lag_shaper_t {feature-list:HAVE_DNX}?

| +--ro lag-shaper-unit? uint8 {feature-list:HAVE_DNX}?

```

+--rw remark
| +--rw config
| | +--rw cos?      ipi-qos-types:cml_remark_state_t
| | +--rw inner-cos? empty {feature-list:HAVE_CUSTOM2_QOS,feature-list:HAVE_SUBINTERFACE}?
| | +--rw dscp?     ipi-qos-types:cml_remark_state_t
| +--ro state
|   +--ro cos?      ipi-qos-types:cml_remark_state_t
|   +--ro inner-cos? empty {feature-list:HAVE_CUSTOM2_QOS,feature-list:HAVE_SUBINTERFACE}?
|   +--ro dscp?     ipi-qos-types:cml_remark_state_t
+--rw traffic-shape
| +--rw config!
| | +--rw rate      uint64
| | +--rw rate-unit ipi-qos-types:qos_shape_rate_unit_t
| +--ro state
|   +--ro rate      uint64
|   +--ro rate-unit ipi-qos-types:qos_shape_rate_unit_t
+--rw map-profile {feature-list:HAVE_QOS_MAPPING_PROFILE}?
| +--rw config
| | +--rw cos-to-queue?      string
| | +--rw dscp-to-dscp?      string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw precedence-to-precedence? string {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw dscp-to-queue?      string
| | +--rw precedence-to-queue? string
| | +--rw queue-color-to-cos?  string
| | +--rw queue-to-exp?        string {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw egress-dynamic-ecn?  string
| +--ro state
|   +--ro cos-to-queue?      string
|   +--ro dscp-to-dscp?      string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   +--ro precedence-to-precedence? string {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   +--ro dscp-to-queue?      string
|   +--ro precedence-to-queue? string
|   +--ro queue-color-to-cos?  string
|   +--ro queue-to-exp?        string {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?

```

```
|  +--ro egress-dynamic-ecn?    string
+--rw service-policy
  +--rw ingress
    | +--rw config
    | | +--rw type-qos-policy-map-name? string
    | +--ro state
    | | +--ro type-qos-policy-map-name? string
    | +--ro class-maps-level-1
    |   +--ro class-map-level-1* [class-map-name-level-1]
    |     +--ro class-map-name-level-1 -> ../state/class-map-name-level-1
    |     +--ro state
    |       | +--ro class-map-name-level-1? string
    |       | +--ro counters
    |       |   +--ro matched-packets?    yang:counter64
    |       |   +--ro matched-octets?     yang:counter64
    |       |   +--ro transmitted-packets? yang:counter64
    |       |   +--ro transmitted-octets?  yang:counter64
    |       |   +--ro dropped-packets?     yang:counter64
    |       |   +--ro dropped-octets?     yang:counter64
    |     +--ro class-maps-level-2
    |       +--ro class-map-level-2* [class-map-name-level-2]
    |       +--ro class-map-name-level-2 -> ../state/class-map-name-level-2
    |       +--ro state
    |         | +--ro class-map-name-level-2? string
    |         | +--ro counters
    |         |   +--ro matched-packets?    yang:counter64
    |         |   +--ro matched-octets?     yang:counter64
    |         |   +--ro transmitted-packets? yang:counter64
    |         |   +--ro transmitted-octets?  yang:counter64
    |         |   +--ro dropped-packets?     yang:counter64
    |         |   +--ro dropped-octets?     yang:counter64
    |       +--ro class-maps-level-3
    |         +--ro class-map-level-3* [class-map-name-level-3]
    |         +--ro class-map-name-level-3 -> ../state/class-map-name-level-3
    |         +--ro state
    |           +--ro class-map-name-level-3? string
```

```

|           +--ro counters
|           +--ro matched-packets?   yang:counter64
|           +--ro matched-octets?    yang:counter64
|           +--ro transmitted-packets? yang:counter64
|           +--ro transmitted-octets? yang:counter64
|           +--ro dropped-packets?    yang:counter64
|           +--ro dropped-octets?     yang:counter64
+--rw egress
+--rw config
| +--rw type-qos-policy-map-name?   string {feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
| +--rw type-queuing-policy-map-name? string
+--ro state
| +--ro type-qos-policy-map-name?   string {feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
| +--ro type-queuing-policy-map-name? string
+--ro class-maps-level-1
+--ro class-map-level-1* [class-map-name-level-1]
+--ro class-map-name-level-1 -> ../state/class-map-name-level-1
+--ro state
| +--ro class-map-name-level-1? string
| +--ro queues
|   +--ro queue* [id]
|     +--ro id      uint8
|     +--ro counters
|       +--ro total-transmitted-packets?   yang:counter64
|       +--ro total-transmitted-octets?    yang:counter64
|       +--ro total-dropped-packets?       yang:counter64
|       +--ro total-dropped-octets?        yang:counter64
|       +--ro green-transmitted-packets?   yang:counter64
|       +--ro non-green-transmitted-packets? yang:counter64
|       +--ro green-dropped-packets?       yang:counter64
|       +--ro yellow-dropped-packets?      yang:counter64
|       +--ro red-dropped-packets?         yang:counter64
|       +--ro rate-kbps?                   decimal64
|       +--ro rate-mbps?                   decimal64
|       +--ro rate-gbps?                   decimal64

```

```
|   +--ro queue-size
|   +--ro state
|   +--ro max-threshold?    yang:counter64
|   +--ro max-threshold-type? ipi-qos-types:qos_threshold_t
+--ro class-maps-level-2
  +--ro class-map-level-2* [class-map-name-level-2]
    +--ro class-map-name-level-2  -> ../state/class-map-name-level-2
    +--ro state
      | +--ro class-map-name-level-2? string
      | +--ro queues
      |   +--ro queue* [id]
      |     +--ro id      uint8
      |     +--ro counters
      |       | +--ro total-transmitted-packets?    yang:counter64
      |       | +--ro total-transmitted-octets?    yang:counter64
      |       | +--ro total-dropped-packets?      yang:counter64
      |       | +--ro total-dropped-octets?      yang:counter64
      |       | +--ro green-transmitted-packets?   yang:counter64
      |       | +--ro non-green-transmitted-packets? yang:counter64
      |       | +--ro green-dropped-packets?      yang:counter64
      |       | +--ro yellow-dropped-packets?     yang:counter64
      |       | +--ro red-dropped-packets?        yang:counter64
      |       | +--ro rate-kbps?                  decimal64
      |       | +--ro rate-mbps?                  decimal64
      |       | +--ro rate-gbps?                  decimal64
      |       +--ro queue-size
      |       +--ro state
      |       +--ro max-threshold?    yang:counter64
      |       +--ro max-threshold-type? ipi-qos-types:qos_threshold_t
    +--ro class-maps-level-3
      +--ro class-map-level-3* [class-map-name-level-3]
        +--ro class-map-name-level-3  -> ../state/class-map-name-level-3
        +--ro state
          +--ro class-map-name-level-3? string
          +--ro queues
            +--ro queue* [id]
```

```

+--ro id          uint8
+--ro counters
  | +--ro total-transmitted-packets?  yang:counter64
  | +--ro total-transmitted-octets?   yang:counter64
  | +--ro total-dropped-packets?     yang:counter64
  | +--ro total-dropped-octets?      yang:counter64
  | +--ro green-transmitted-packets?  yang:counter64
  | +--ro non-green-transmitted-packets? yang:counter64
  | +--ro green-dropped-packets?     yang:counter64
  | +--ro yellow-dropped-packets?    yang:counter64
  | +--ro red-dropped-packets?       yang:counter64
  | +--ro rate-kbps?                 decimal64
  | +--ro rate-mbps?                 decimal64
  | +--ro rate-gbps?                 decimal64
+--ro queue-size
+--ro state
  +--ro max-threshold?               yang:counter64
  +--ro max-threshold-type?         ipi-qos-types:qos_threshold_t

```

notifications:

```

+---n qos-subinterface-default-policy-add-notification
  | +--ro severity?  cml-data-types:cml_notif_severity_t
  | +--ro eventClass? cml-data-types:cml_notif_class_t
  | +--ro message?   string
+---n qos-subinterface-default-policy-delete-notification
  | +--ro severity?  cml-data-types:cml_notif_severity_t
  | +--ro eventClass? cml-data-types:cml_notif_class_t
  | +--ro message?   string
+---n qos-subinterface-traffic-shape-add-notification
  | +--ro severity?  cml-data-types:cml_notif_severity_t
  | +--ro eventClass? cml-data-types:cml_notif_class_t
  | +--ro message?   string
+---n qos-subinterface-traffic-shape-delete-notification
  +--ro severity?  cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro message?   string

```

ipi-qos

```
+--rw qos
  +--rw global
    +--rw config
      | +--rw enable-qos?  cml-data-types:cml_enable_disable_t
    +--ro state
      | +--ro enable-qos?  cml-data-types:cml_enable_disable_t
      | +--ro counters
      |   +--ro policy-entries?  yang:counter32
    +--rw map-profile {feature-list:HAVE_QOS_MAPPING_PROFILE}?
      | +--rw cos-to-queue-profiles
      | | +--rw cos-to-queue-profile* [name]
      | |   +--rw name          -> ../config/name
      | |   +--rw config
      | |     | +--rw name?  string
      | |     +--ro state
      | |       | +--ro name?  string
      | |     +--rw cos-to-queues {feature-list:HAVE_CUSTOM2_QOS}?
      | |       +--rw cos-to-queue* [cos-value]
      | |         +--rw cos-value  -> ../config/cos-value
      | |         +--rw config
      | |           | +--rw cos-value?    uint8
      | |           | +--rw queue-id      uint8
      | |           | +--rw remark-queue-id?  uint8 {feature-list:HAVE_CUSTOM3_QOS}?
      | |           +--ro state
      | |             +--ro cos-value?    uint8
      | |             +--ro queue-id      uint8
      | |             +--ro remark-queue-id?  uint8 {feature-list:HAVE_CUSTOM3_QOS}?
      | +--rw dscp-to-dscp-profiles {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
      | | +--rw dscp-to-dscp-profile* [name]
      | |   +--rw name          -> ../config/name
      | |   +--rw config
      | |     | +--rw name?  string
```

```

| | +--ro state
| | | +--ro name? string
| | +--rw dscp-to-dscps
| |   +--rw dscp-to-dscp* [dscp-value color]
| |     +--rw dscp-value  -> ../config/dscp-value
| |     +--rw color       -> ../config/color
| |     +--rw config
| |       | +--rw dscp-value?      uint8
| |       | +--rw color?          ipi-qos-types:qos_color_key_t
| |       | +--rw remark-dscp-value uint8
| |       +--ro state
| |         +--ro dscp-value?      uint8
| |         +--ro color?          ipi-qos-types:qos_color_key_t
| |         +--ro remark-dscp-value uint8
| +--rw precedence-to-precedence-profiles {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw precedence-to-precedence-profile* [name]
| |   +--rw name          -> ../config/name
| |   +--rw config
| |     | +--rw name? string
| |     +--ro state
| |     | +--ro name? string
| |     +--rw precedence-to-precedences
| |       +--rw precedence-to-precedence* [precedence-value]
| |         +--rw precedence-value  -> ../config/precedence-value
| |         +--rw config
| |           | +--rw precedence-value?      uint8
| |           | +--rw remark-precedence-value uint8
| |           +--ro state
| |             +--ro precedence-value?      uint8
| |             +--ro remark-precedence-value uint8
| +--rw dscp-to-queue-profiles
| | +--rw dscp-to-queue-profile* [name]
| |   +--rw name          -> ../config/name
| |   +--rw config
| |     | +--rw name? string
| |     +--ro state

```

```

| | | +--ro name? string
| | +--rw dscp-to-queues
| |   +--rw dscp-to-queue* [dscp-value]
| |     +--rw dscp-value -> ../config/dscp-value
| |     +--rw config
| |       | +--rw dscp-value? uint8
| |       | +--rw queue-id uint8
| |       | +--rw color? ipi-qos-types:qos_color_t
| |       | +--rw remark-dscp-value? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| |       +--ro state
| |         +--ro dscp-value? uint8
| |         +--ro queue-id uint8
| |         +--ro color? ipi-qos-types:qos_color_t
| |         +--ro remark-dscp-value? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| +--rw exp-to-queue-profiles {feature-list:HAVE_DIFFSERV}?
| | +--rw exp-to-queue-profile* [profile-id]
| |   +--rw profile-id -> ../config/profile-id
| |   +--rw config
| |     | +--rw profile-id? ipi-qos-types:qos_profile_name_default_t
| |     +--ro state
| |       | +--ro profile-id? ipi-qos-types:qos_profile_name_default_t
| |   +--rw exp-to-queues
| |     +--rw exp-to-queue* [exp-value]
| |       +--rw exp-value -> ../config/exp-value
| |       +--rw config
| |         | +--rw exp-value? uint8
| |         | +--rw queue-id uint8
| |         | +--rw color? ipi-qos-types:qos_color_t
| |         | +--rw remark-queue-value? uint8 {feature-list:HAVE_CUSTOM3_QOS}?
| |         +--ro state
| |           +--ro exp-value? uint8
| |           +--ro queue-id uint8
| |           +--ro color? ipi-qos-types:qos_color_t
| |           +--ro remark-queue-value? uint8 {feature-list:HAVE_CUSTOM3_QOS}?
| +--rw queue-to-exp-profiles {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw queue-to-exp-profile* [name]

```

```

| | +--rw name          -> ../config/name
| | +--rw config
| | | +--rw name?  string
| | +--ro state
| | | +--ro name?  string
| | +--rw queues-to-exp
| | +--rw queues-color-to-exp {feature-list:HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
| |   +--rw queue-color-to-exp* [queue-id color]
| |     +--rw queue-id  -> ../config/queue-id
| |     +--rw color     -> ../config/color
| |     +--rw config
| |       | +--rw queue-id?  uint8
| |       | +--rw color?    ipi-qos-types:qos_color_key_t
| |       | +--rw exp-value  uint8
| |       +--ro state
| |         +--ro queue-id?  uint8
| |         +--ro color?    ipi-qos-types:qos_color_key_t
| |         +--ro exp-value  uint8
| +--rw queue-color-to-cos-profiles
| | +--rw queue-color-to-cos-profile* [name]
| |   +--rw name          -> ../config/name
| |   +--rw config
| |     | +--rw name?  string
| |     +--ro state
| |     | +--ro name?  string
| |     +--rw queue-color-to-coses
| |       +--rw queue-color-to-cos* [queue-id color]
| |         +--rw queue-id  -> ../config/queue-id
| |         +--rw color     -> ../config/color
| |         +--rw config
| |           | +--rw queue-id?  uint8
| |           | +--rw color?    ipi-qos-types:qos_color_key_t
| |           | +--rw cos-value  uint8
| |           +--ro state
| |             +--ro queue-id?  uint8
| |             +--ro color?    ipi-qos-types:qos_color_key_t

```

```

| |      +--ro cos-value   uint8
| +--rw precedence-to-queue-profiles
| | +--rw precedence-to-queue-profile* [name]
| |   +--rw name           -> ../config/name
| |   +--rw config
| |     | +--rw name?   string
| |     +--ro state
| |     | +--ro name?   string
| |     +--rw precedence-to-queues
| |       +--rw precedence-to-queue* [precedence-value]
| |         +--rw precedence-value -> ../config/precedence-value
| |         +--rw config
| |           | +--rw precedence-value?   uint8
| |           | +--rw queue-id            uint8
| |           | +--rw remark-precedence-value? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| |           +--ro state
| |             +--ro precedence-value?   uint8
| |             +--ro queue-id            uint8
| |             +--ro remark-precedence-value? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| +--rw queue-color-to-dscp-profiles
| | +--rw queue-color-to-dscp-profile* [name]
| |   +--rw name           -> ../config/name
| |   +--rw config
| |     | +--rw name?   string
| |     +--ro state
| |     | +--ro name?   string
| |     +--rw queue-color-to-dscps
| |       +--rw queue-color-to-dscp* [queue-id color]
| |         +--rw queue-id -> ../config/queue-id
| |         +--rw color    -> ../config/color
| |         +--rw config
| |           | +--rw queue-id?   uint8
| |           | +--rw color?     ipi-qos-types:qos_color_key_t
| |           | +--rw dscp-value uint8
| |           +--ro state
| |           +--ro queue-id?   uint8

```

```
| |      +--ro color?      ipi-qos-types:qos_color_key_t
| |      +--ro dscp-value   uint8
| +--rw egress-dynamic-ecn-profiles
|   +--rw egress-dynamic-ecn-profile* [name]
|     +--rw name           -> ../config/name
|     +--rw config
|       | +--rw name?      string
|       +--ro state
|       | +--ro name?      string
|       +--rw egress-dynamic-ecns
|         +--rw egress-dynamic-ecn* [queue-id]
|           +--rw queue-id  -> ../config/queue-id
|           +--rw config
|             | +--rw queue-id?   uint8
|             | +--rw on-offset   uint32
|             | +--rw off-offset  uint32
|             | +--rw offset-unit ipi-qos-types:qos_eg_dynamic_ecn_offset_unit_t
|             +--ro state
|               +--ro queue-id?   uint8
|               +--ro on-offset   uint32
|               +--ro off-offset  uint32
|               +--ro offset-unit ipi-qos-types:qos_eg_dynamic_ecn_offset_unit_t
+--rw remark
| +--rw config
| | +--rw cos?   empty
| | +--rw dei?   empty {feature-list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS}?
| | +--rw dscp?  empty
| +--ro state
|   +--ro cos?   empty
|   +--ro dei?   empty {feature-list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS}?
|   +--ro dscp?  empty
+--ro class-maps-default
| +--ro class-map-default* [name]
|   +--ro name  -> ../state/name
|   +--ro state
|     +--ro name?      string
```

```

|   +--ro type?          ipi-qos-types:qos_class_map_default_t
|   +--ro match-criteria? ipi-qos-types:qos_match_criteria_t
+--rw class-maps
| +--rw class-map* [name type]
|   +--rw name           -> ../config/name
|   +--rw type           -> ../config/type
|   +--rw config
|   | +--rw name?        string
|   | +--rw type?        ipi-qos-types:qos_class_map_t
|   | +--rw match-criteria ipi-qos-types:qos_match_criteria_t
|   | +--rw reference-description? cml-data-types:cml_line_t
|   +--ro state
|   | +--ro name?        string
|   | +--ro type?        ipi-qos-types:qos_class_map_t
|   | +--ro match-criteria ipi-qos-types:qos_match_criteria_t
|   | +--ro reference-description? cml-data-types:cml_line_t
|   +--rw match-any-conditions
|   | +--rw config
|   | | +--rw access-control-list-name? string
|   | | +--rw ethertype*          string
|   | | +--rw traffic-type*       ipi-qos-types:qos_traffic_type_t
|   | | +--rw cos?                cml-data-types:cml_range_t
|   | | +--rw inner-cos?          cml-data-types:cml_range_t
|   | | +--rw vlan?              cml-data-types:cml_range_t
|   | | +--rw inner-vlan?        cml-data-types:cml_range_t
|   | | +--rw rtp?               cml-data-types:cml_range_t
|   | | +--rw mpls-exp?          cml-data-types:cml_range_t {feature-list:HAVE_DIFFSERV}?
|   | | +--rw dscp?              cml-data-types:cml_range_t
|   | | +--rw ipv6-dscp?         cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   | | +--rw precedence?        cml-data-types:cml_range_t
|   | | +--rw ipv6-precedence?   cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   | +--ro state
|   | | +--ro access-control-list-name? string
|   | | +--ro ethertype*          string
|   | | +--ro traffic-type*       ipi-qos-types:qos_traffic_type_t

```

```

| | | +--ro cos?          cml-data-types:cml_range_t
| | | +--ro inner-cos?    cml-data-types:cml_range_t
| | | +--ro vlan?         cml-data-types:cml_range_t
| | | +--ro inner-vlan?   cml-data-types:cml_range_t
| | | +--ro rtp?          cml-data-types:cml_range_t
| | | +--ro mpls-exp?     cml-data-types:cml_range_t {feature-list:HAVE_DIFFSERV}?
| | | +--ro dscp?         cml-data-types:cml_range_t
| | | +--ro ipv6-dscp?    cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | | +--ro precedence?   cml-data-types:cml_range_t
| | | +--ro ipv6-precedence? cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw ipv4
| | | +--rw layer4-match* [protocol port-type]
| | |   +--rw protocol    -> ../config/protocol
| | |   +--rw port-type   -> ../config/port-type
| | |   +--rw config
| | |     | +--rw protocol? ipi-qos-types:qos_layer4_protocol_t
| | |     | +--rw port-type? ipi-qos-types:qos_layer4_port_t
| | |     | +--rw port     cml-data-types:cml_range_t
| | |     +--ro state
| | |       +--ro protocol? ipi-qos-types:qos_layer4_protocol_t
| | |       +--ro port-type? ipi-qos-types:qos_layer4_port_t
| | |       +--ro port     cml-data-types:cml_range_t
| | +--rw ipv6
| |   +--rw layer4-match* [protocol port-type] {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| |     +--rw protocol    -> ../config/protocol
| |     +--rw port-type   -> ../config/port-type
| |     +--rw config
| |       | +--rw protocol? ipi-qos-types:qos_layer4_protocol_t
| |       | +--rw port-type? ipi-qos-types:qos_layer4_port_t
| |       | +--rw port     cml-data-types:cml_range_t
| |       +--ro state
| |         +--ro protocol? ipi-qos-types:qos_layer4_protocol_t
| |         +--ro port-type? ipi-qos-types:qos_layer4_port_t
| |         +--ro port     cml-data-types:cml_range_t

```

```

|   +--rw match-all-conditions
|   |   +--rw config
|   |   |   +--rw ethertype-all?      string
|   |   |   +--rw traffic-type-all?   ipi-qos-types:qos_traffic_type_t
|   |   |   +--rw cos-all?            uint8
|   |   |   +--rw inner-cos-all?      uint8
|   |   |   +--rw vlan-all?           uint16
|   |   |   +--rw inner-vlan-all?     uint16
|   |   |   +--rw rtp-all?            string
|   |   |   +--rw mpls-exp-all?       uint8 {feature-list:HAVE_DIFFSERV}?
|   |   |   +--rw dscp-all?           ipi-qos-types:qos_match_dscp_t
|   |   |   +--rw ipv6-dscp-all?      ipi-qos-types:qos_match_dscp_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   |   |   +--rw precedence-all?     string
|   |   |   +--rw ipv6-precedence-all? string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   |   +--ro state
|   |   |   +--ro ethertype-all?      string
|   |   |   +--ro traffic-type-all?   ipi-qos-types:qos_traffic_type_t
|   |   |   +--ro cos-all?            uint8
|   |   |   +--ro inner-cos-all?      uint8
|   |   |   +--ro vlan-all?           uint16
|   |   |   +--ro inner-vlan-all?     uint16
|   |   |   +--ro rtp-all?            string
|   |   |   +--ro mpls-exp-all?       uint8 {feature-list:HAVE_DIFFSERV}?
|   |   |   +--ro dscp-all?           ipi-qos-types:qos_match_dscp_t
|   |   |   +--ro ipv6-dscp-all?      ipi-qos-types:qos_match_dscp_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   |   |   +--ro precedence-all?     string
|   |   |   +--ro ipv6-precedence-all? string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|   |   +--rw layer4-matches-ipv4
|   |   |   +--rw layer4-match-ipv4* [protocol-all port-type-all port-all]
|   |   |   |   +--rw protocol-all   -> ../config/protocol-all
|   |   |   |   +--rw port-type-all  -> ../config/port-type-all
|   |   |   |   +--rw port-all       -> ../config/port-all
|   |   |   |   +--rw config
|   |   |   |   |   +--rw protocol-all? ipi-qos-types:qos_layer4_protocol_t
|   |   |   |   |   +--rw port-type-all? ipi-qos-types:qos_layer4_port_t

```

```

| | | +--rw port-all?    cml-data-types:cml_range_t
| |   +--ro state
| |     +--ro protocol-all?  ipi-qos-types:qos_layer4_protocol_t
| |     +--ro port-type-all? ipi-qos-types:qos_layer4_port_t
| |     +--ro port-all?      cml-data-types:cml_range_t
|   +--rw layer4-matches-ipv6 {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|     +--rw layer4-match-ipv6* [protocol-all port-type-all port-all]
|       +--rw protocol-all  -> ../config/protocol-all
|       +--rw port-type-all  -> ../config/port-type-all
|       +--rw port-all      -> ../config/port-all
|       +--rw config
|         | +--rw protocol-all?  ipi-qos-types:qos_layer4_protocol_t
|         | +--rw port-type-all? ipi-qos-types:qos_layer4_port_t
|         | +--rw port-all?      cml-data-types:cml_range_t
|         +--ro state
|           +--ro protocol-all?  ipi-qos-types:qos_layer4_protocol_t
|           +--ro port-type-all? ipi-qos-types:qos_layer4_port_t
|           +--ro port-all?      cml-data-types:cml_range_t
+--rw class-maps-queuing
| +--rw class-map-queuing* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|     | +--rw name?          string
|     | +--rw type           ipi-qos-types:qos_class_map_t
|     | +--rw reference-description? cml-data-types:cml_line_t
|     +--ro state
|       | +--ro name?          string
|       | +--ro type           ipi-qos-types:qos_class_map_t
|       | +--ro reference-description? cml-data-types:cml_line_t
|       +--rw match-conditions
|         +--rw config
|           | +--rw vlan-queue?      uint16 {feature-list:NOT_HAVE_MARVELL}?
|           | +--rw queue*           uint8 {feature-list:HAVE_SERVICE_QUEUEING_2}?
|           | +--rw service-template-name? string {feature-list:HAVE_SERVICE_QUEUEING_2,feature-
list:NOT_HAVE_MARVELL}?
|           | +--rw interface?       string {feature-list:HAVE_SERVICE_QUEUEING_2,feature-
list:NOT_HAVE_MARVELL}?

```

```
|   +--ro state
|   +--ro vlan-queue?      uint16 {feature-list:NOT_HAVE_MARVELL}?
|   +--ro queue*          uint8 {feature-list:HAVE_SERVICE_QUEUEING_2}?
|   +--ro service-template-name? string {feature-list:HAVE_SERVICE_QUEUEING_2,feature-
list:NOT_HAVE_MARVELL}?
|   +--ro interface?      string {feature-list:HAVE_SERVICE_QUEUEING_2,feature-
list:NOT_HAVE_MARVELL}?
+--rw policy-maps
| +--rw policy-map* [policy-map-name type]
|   +--rw policy-map-name  -> ../config/policy-map-name
|   +--rw type              -> ../config/type
|   +--rw config
|   | +--rw policy-map-name?    string
|   | +--rw type?              ipi-qos-types:qos_policy_map_t
|   | +--rw reference-description? cml-data-types:cml_line_t
|   +--ro state
|   | +--ro policy-map-name?    string
|   | +--ro type?              ipi-qos-types:qos_policy_map_t
|   | +--ro reference-description? cml-data-types:cml_line_t
|   +--rw classes
|   +--rw class* [class-map-name]
|   +--rw class-map-name  -> ../config/class-map-name
|   +--rw config
|   | +--rw class-map-name?      ipi-qos-types:qos_policy_map_class_t
|   | +--rw class-type          ipi-qos-types:qos_policy_map_t
|   | +--rw child-service-policy-name? -> /qos/global/policy-maps/policy-map/policy-map-name {feature-
list:HAVE_CUSTOM2_QOS}?
|   | +--rw reference-description? cml-data-types:cml_line_t
|   +--ro state
|   | +--ro class-map-name?      ipi-qos-types:qos_policy_map_class_t
|   | +--ro class-type          ipi-qos-types:qos_policy_map_t
|   | +--ro child-service-policy-name? -> /qos/global/policy-maps/policy-map/policy-map-name {feature-
list:HAVE_CUSTOM2_QOS}?
|   | +--ro reference-description? cml-data-types:cml_line_t
|   +--rw queue-mode
|   +--rw config
|   | +--rw byte-compensation?    int8 {feature-list:HAVE_CUSTOM2_QOS}?
|   | +--rw priority-level?      uint8 {feature-list:HAVE_CUSTOM2_QOS}?
```

```

|   | | +-rw weighted-fair-queueing-queue-weight? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|   | +-ro state
|   | | +-ro byte-compensation? int8 {feature-list:HAVE_CUSTOM2_QOS}?
|   | | +-ro priority-level? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|   | | +-ro weighted-fair-queueing-queue-weight? uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|   | +-rw red
|   | | +-rw config
|   | | | +-rw weight? uint8
|   | | | +-ro state
|   | | | +-ro weight? uint8
|   | | +-rw wreds {feature-list:HAVE_CUSTOM2_QOS}?
|   | |   +-rw wred* [color]
|   | |     +-rw color -> ../config/color
|   | |     +-rw config!
|   | | | +-rw color? ipi-qos-types:qos_color_key_t
|   | | | +-rw min-threshold uint32
|   | | | +-rw min-threshold-unit ipi-qos-types:qos_threshold_t
|   | | | +-rw max-threshold uint32
|   | | | +-rw max-threshold-unit ipi-qos-types:qos_threshold_t
|   | | | +-rw drop-probability? uint8
|   | |   +-ro state
|   | |     +-ro color? ipi-qos-types:qos_color_key_t
|   | |     +-ro min-threshold uint32
|   | |     +-ro min-threshold-unit ipi-qos-types:qos_threshold_t
|   | |     +-ro max-threshold uint32
|   | |     +-ro max-threshold-unit ipi-qos-types:qos_threshold_t
|   | |     +-ro drop-probability? uint8
|   | +-rw tail-drops
|   | | +-rw tail-drop* [max-threshold max-threshold-type]
|   | |   +-rw max-threshold -> ../config/max-threshold
|   | |   +-rw max-threshold-type -> ../config/max-threshold-type
|   | |   +-rw config
|   | | | +-rw max-threshold? uint32
|   | | | +-rw max-threshold-type? ipi-qos-types:qos_threshold_t
|   | |   +-ro state
|   | |     +-ro max-threshold? uint32

```

```

|   | |   +--ro max-threshold-type?  ipi-qos-types:qos_threshold_t
|   | +--rw shapes
|   |   +--rw shape* [rate-value rate-unit]
|   |       +--rw rate-value  -> ../config/rate-value
|   |       +--rw rate-unit   -> ../config/rate-unit
|   |       +--rw config
|   |           | +--rw rate-value?  uint32
|   |           | +--rw rate-unit?   ipi-qos-types:qos_shape_rate_unit_extended_t
|   |           +--ro state
|   |               +--ro rate-value?  uint32
|   |               +--ro rate-unit?   ipi-qos-types:qos_shape_rate_unit_extended_t
|   +--rw qos-mode
|   | +--rw config
|   | | +--rw priority?           uint16
|   | | +--rw color-value-remark? ipi-qos-types:qos_color_action_t {feature-list:HAVE_CUSTOM3_QOS}?
|   | | +--rw (set-option)?
|   | |   +---:(port-action)
|   | |   +---:(precedence)
|   | |       | +--rw precedence-remark?  string
|   | |       +---:(bridge-precedence)
|   | |       +---:(cos)
|   | |           | +--rw cos-value?      uint8
|   | |           +---:(bridge-cos)
|   | |           +---:(dscp)
|   | |               | +--rw dscp-value-remark?  string
|   | |               +---:(bridge-dscp)
|   | |               +---:(queue)
|   | |                   | +--rw queue-id?      uint8
|   | |                   +---:(bridge-queue)
|   | |                   +---:(qos-group)
|   | +--ro state
|   | | +--ro priority?           uint16
|   | | +--ro color-value-remark? ipi-qos-types:qos_color_action_t {feature-list:HAVE_CUSTOM3_QOS}?
|   | | +--ro (set-option)?
|   | |   +---:(port-action)
|   | |   +---:(precedence)

```

```

|      | | | +--ro precedence-remark?  string
|      | | +---:(bridge-precedence)
|      | | +---:(cos)
|      | | | +--ro cos-value?          uint8
|      | | +---:(bridge-cos)
|      | | +---:(dscp)
|      | | | +--ro dscp-value-remark?  string
|      | | +---:(bridge-dscp)
|      | | +---:(queue)
|      | | | +--ro queue-id?           uint8
|      | | +---:(bridge-queue)
|      | | +---:(qos-group)
|      | +--rw police
|      |   +--rw config
|      |     | +--rw police-type?  ipi-qos-types:qos_police_t
|      |     | +--rw cir?          uint64
|      |     | +--rw cir-unit?     ipi-qos-types:qos_rate_unit_t
|      |     | +--rw bc?          uint64
|      |     | +--rw bc-unit?     ipi-qos-types:qos_burst_rate_unit_t
|      |     | +--rw eir?         uint64 {feature-list:HAVE_CUSTOM2_QOS}?
|      |     | +--rw eir-unit?    ipi-qos-types:qos_rate_unit_t {feature-list:HAVE_CUSTOM2_QOS}?
|      |     | +--rw be?          uint32
|      |     | +--rw be-unit?     ipi-qos-types:qos_burst_rate_unit_t
|      |     +--ro state
|      |       +--ro police-type?  ipi-qos-types:qos_police_t
|      |       +--ro cir?          uint64
|      |       +--ro cir-unit?     ipi-qos-types:qos_rate_unit_t
|      |       +--ro bc?          uint64
|      |       +--ro bc-unit?     ipi-qos-types:qos_burst_rate_unit_t
|      |       +--ro eir?         uint64 {feature-list:HAVE_CUSTOM2_QOS}?
|      |       +--ro eir-unit?    ipi-qos-types:qos_rate_unit_t {feature-list:HAVE_CUSTOM2_QOS}?
|      |       +--ro be?          uint32
|      |       +--ro be-unit?     ipi-qos-types:qos_burst_rate_unit_t
|      +--rw copp-mode {feature-list:HAVE_COPP_FILTER}?
|      +--rw police
|      +--rw config

```

```

|      | +--rw copp-police-type?  ipi-qos-types:qos_police_t
|      | +--rw copp-cir?          uint64
|      | +--rw copp-cir-unit?     ipi-qos-types:qos_shape_rate_unit_t
|      +--ro state
|          +--ro copp-police-type? ipi-qos-types:qos_police_t
|          +--ro copp-cir?         uint64
|          +--ro copp-cir-unit?    ipi-qos-types:qos_shape_rate_unit_t
+--rw statistics
| +--rw config
| | +--rw enabled?  empty
| +--ro state
|   +--ro enabled?  empty
+--rw red-drop
| +--rw config
| | +--rw disabled?  empty {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| +--ro state
|   +--ro disabled?  empty {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
+--rw vlan-queuing
| +--rw config
| +--ro state
+--rw copp-service-policy {feature-list:HAVE_COPP_FILTER}?
  +--rw config
  | +--rw policy-map-name?  -> /qos/global/policy-maps/policy-map/policy-map-name
  +--ro state
    +--ro policy-map-name?  -> /qos/global/policy-maps/policy-map/policy-map-name

```

rpcs:

```

+---x qos-clear-statistics {feature-list:HAVE_QOS}?
+---w input
  +---w interface-name?  string
  +---w type?            ipi-qos-types:qos_clear_stats_t

```

ipi-radius

```

+--rw radius

```

```

+--rw vrfs
| +--rw vrf* [vrf-name] {feature-list:HAVE_AAA}?
|   +--rw vrf-name      -> ../config/vrf-name
|   +--rw config
|     | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|     | +--rw key-type?      ipi-radius-types:radius_hostp_key_type_t
|     | +--rw secret-key-string? string
|     | +--rw timeout?       uint8
|     +--ro state
|       | +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|       | +--ro key-type?      ipi-radius-types:radius_hostp_key_type_t
|       | +--ro secret-key-string? string
|       | +--ro timeout?       uint8
|     +--rw remote-servers
|       +--rw server* [host-address] {feature-list:HAVE_AAA}?
|         +--rw host-address  -> ../config/host-address
|         +--rw config
|           | +--rw host-address?    cml-data-types:cml_hostname_t
|           | +--rw sequence-number  uint8
|           | +--rw key-type?        ipi-radius-types:radius_hostp_key_type_t
|           | +--rw secret-key-string? string
|           | +--rw accounting-port? uint16
|           | +--rw authentication-port? uint16
|           | +--rw timeout?         uint8
|         +--ro state
|           +--ro host-address?      cml-data-types:cml_hostname_t
|           +--ro sequence-number    uint8
|           +--ro key-type?          ipi-radius-types:radius_hostp_key_type_t
|           +--ro secret-key-string? string
|           +--ro accounting-port?    uint16
|           +--ro authentication-port? uint16
|           +--ro timeout?            uint8
|           +--ro last-successful-authentication-time? yang:date-and-time
|           +--ro counters
|             +--ro successful-authentications? yang:counter64
|             +--ro authentication-failures?   yang:counter64

```

```

|      +--ro connection-failures?      yang:counter64
+--rw debug
  +--rw config
    | +--rw enable?  empty
    +--ro state
      +--ro enable?      empty
      +--ro terminal-debug-status?  cml-data-types:cml_on_off_t

```

rpcs:

```

+---x radius-clear-all-server-counters {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
| +---w input
|   +---w vrf-name  string
+---x radius-clear-server-counters {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
| +---w input
|   +---w hostname  cml-data-types:cml_hostname_t
|   +---w vrf-name  string
+---x radius-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
+---x radius-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?

```

ipi-ras

rpcs:

```

+---x platform-clear-hsl-ipc-stat-values {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
| +---w input
|   +---w start-value  uint16
|   +---w end-value    uint16
+---x platform-clear-hsl-ipc-stat {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-mlag-mac-sync {feature-list:HAVE_MLAG}?
+---x platform-clear-hardware-discard-counters {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-fdb-debug-counters {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-system-cpu-stats {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?

```

ipi-rib-vrf

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```
+--rw global
  +--rw config
    | +--rw ipv4-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    | +--rw ipv6-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
  +--ro state
    +--ro ipv4-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
    +--ro ipv6-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```
+--rw static-routes
  +--rw ipv4
    | +--rw multicast-routes
    |   +--rw multicast-route* [source-prefix protocol-type]
    |     +--rw source-prefix -> ../config/source-prefix
    |     +--rw protocol-type -> ../config/protocol-type
    |     +--rw config
    |       | +--rw source-prefix? cml-data-types:cml_ipv4_prefix_t
    |       | +--rw protocol-type? ipi-rib-types:rib_mroute_route_type_t
    |       | +--rw gateway-address inet:ipv4-address
    |       | +--rw distance? uint32
    |       +--ro state
    |         +--ro source-prefix? cml-data-types:cml_ipv4_prefix_t
    |         +--ro protocol-type? ipi-rib-types:rib_mroute_route_type_t
    |         +--ro gateway-address inet:ipv4-address
    |         +--ro distance? uint32
  +--rw ipv6 {feature-list:HAVE_IPV6}?
    +--rw multicast-routes
      +--rw multicast-route* [source-prefix protocol-type]
        +--rw source-prefix -> ../config/source-prefix
        +--rw protocol-type -> ../config/protocol-type
        +--rw config
          | +--rw source-prefix? cml-data-types:cml_ipv6_prefix_t
          | +--rw protocol-type? ipi-rib-types:rib_mroute_ipv6_route_type_t
```

```

+--ro state
| +--ro source-prefix?  cml-data-types:cml_ipv6_prefix_t
| +--ro protocol-type?  ipi-rib-types:rib_mroute_ipv6_route_type_t
+--rw nexthop
  +--rw config!
  | +--rw gateway-mroute  inet:ipv6-address
  | +--rw distance?      uint32
  +--ro state
    +--ro gateway-mroute  inet:ipv6-address
    +--ro distance?      uint32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```

+--ro ribs
  +--ro ipv4
  | +--ro ecmp-path-summary* [path-count]
  | | +--ro path-count  -> ../state/path-count
  | | +--ro state
  | |   +--ro counters
  | |   | +--ro number-of-routes?  yang:counter32
  | |   | +--ro path-count?  uint32
  | | +--ro protocol-rib-summary* [protocol-type]
  | | +--ro protocol-type  -> ../state/protocol-type
  | | +--ro state
  | |   +--ro counters
  | |   | +--ro number-of-routes?  yang:counter32
  | |   | +--ro protocol-type?  ipi-rib-types:rib_route_type_t
  | | +--ro protocol-rib-mpls-summary* [protocol-type] {feature-list:HAVE_MPLS_AWARE_RIB}?
  | | +--ro protocol-type  -> ../state/protocol-type
  | | +--ro state
  | |   +--ro counters
  | |   | +--ro number-of-routes?  yang:counter32
  | |   | +--ro protocol-type?  ipi-rib-types:rib_route_type_t
  | +--ro routes
  | | +--ro route* [destination-prefix protocol-type]
  | | | +--ro destination-prefix  -> ../state/destination-prefix
  | | | +--ro protocol-type      -> ../state/protocol-type
  | | | +--ro next-hop* [gateway-address]

```

```

| | | +--ro gateway-address  -> ../state/gateway-address
| | | +--ro state
| | |   +--ro gateway-address?      string
| | |   +--ro recursive-hop*        string
| | |   +--ro interface-name?       string
| | |   +--ro active?               empty
| | |   +--ro fib-installed?        empty
| | |   +--ro object-tracking-reachability?  ipi-rib-types:rib_object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
| | |   +--ro recursive-mpls-active?    empty {feature-list:HAVE_MPLS_AWARE_RIB}?
| | |   +--ro recursive-mpls-ftn-id?    uint32 {feature-list:HAVE_MPLS_AWARE_RIB}?
| | |   +--ro recursive-mpls-nhlfe-ix?  uint32 {feature-list:HAVE_MPLS_AWARE_RIB}?
| | |   +--ro recursive-mpls-fib-installed?  empty {feature-list:HAVE_MPLS_AWARE_RIB}?
| | +--ro state
| |   +--ro destination-prefix?  cml-data-types:cml_ipv4_prefix_t
| |   +--ro protocol-type?       ipi-rib-types:rib_route_type_t
| |   +--ro sub-type?            ipi-rib-types:rib_route_sub_type_t
| |   +--ro distance?           uint8
| |   +--ro metric?             uint32
| |   +--ro black-hole?         empty
| |   +--ro up-time?            string
| |   +--ro selected?           empty
| |   +--ro stale?              empty
| +--ro state
|   +--ro gateway-last-resort?  string
+--ro state
  +--ro counters
    +--ro total-routes?          yang:counter32
    +--ro total-paths?           yang:counter32
    +--ro total-routes-in-fib?   yang:counter32
    +--ro ecmp-routes?           yang:counter32
    +--ro ecmp-paths?            yang:counter32
    +--ro total-routes-mpls?     yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
    +--ro total-routes-nhlfe-mpls?  yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
    +--ro total-routes-in-fib-mpls?  yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
+--ro ipv6 {feature-list:HAVE_IPV6}?
  +--ro ecmp-path-summary* [path-count]

```



```

| +--ro path-count  -> ../state/path-count
| +--ro state
|   +--ro counters
|     | +--ro number-of-routes?  yang:counter32
|     +--ro path-count?  uint32
+--ro protocol-rib-summary* [protocol-type]
| +--ro protocol-type  -> ../state/protocol-type
| +--ro state
|   +--ro counters
|     | +--ro number-of-routes?  yang:counter32
|     +--ro protocol-type?  ipi-rib-types:rib_route_type_t
+--ro routes
| +--ro route* [destination-prefix protocol-type]
|   +--ro destination-prefix  -> ../state/destination-prefix
|   +--ro protocol-type      -> ../state/protocol-type
|   +--ro next-hop* [gateway-address]
|     | +--ro gateway-address  -> ../state/gateway-address
|     | +--ro state
|     |   +--ro gateway-address?      string
|     |   +--ro recursive-hop*        string
|     |   +--ro interface-name?       string
|     |   +--ro active?                empty
|     |   +--ro fib-installed?         empty
|     |   +--ro object-tracking-reachability?  ipi-rib-types:rib_object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
|     +--ro state
|       +--ro destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|       +--ro protocol-type?      ipi-rib-types:rib_route_type_t
|       +--ro sub-type?           ipi-rib-types:rib_route_sub_type_t
|       +--ro distance?           uint8
|       +--ro metric?             uint32
|       +--ro black-hole?         empty
|       +--ro up-time?            string
|       +--ro selected?           empty
|       +--ro stale?              empty
+--ro state
  +--ro counters

```

```

    +--ro total-routes?      yang:counter32
    +--ro total-paths?       yang:counter32
    +--ro total-routes-in-fib? yang:counter32
    +--ro ecmp-routes?       yang:counter32
    +--ro ecmp-paths?        yang:counter32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:

```

+--rw maximum-fib-routes
  +--rw ipv4
    | +--rw config!
    | | +--rw max-limit      uint32
    | | +--rw limit-action   ipi-rib-types:rib_max_route_action_t
    | | +--rw warning-threshold? uint8
    | +--ro state
    |   +--ro max-limit      uint32
    |   +--ro limit-action   ipi-rib-types:rib_max_route_action_t
    |   +--ro warning-threshold? uint8
    |   +--ro threshold-exceeded? boolean
    |   +--ro utilization-percentage? uint32
  +--rw ipv6 {feature-list:HAVE_IPV6}?
    +--rw config!
    | +--rw max-limit      uint32
    | +--rw limit-action   ipi-rib-types:rib_max_route_action_t
    | +--rw warning-threshold? uint8
    +--ro state
      +--ro max-limit      uint32
      +--ro limit-action   ipi-rib-types:rib_max_route_action_t
      +--ro warning-threshold? uint8
      +--ro threshold-exceeded? boolean
      +--ro utilization-percentage? uint32

```

rpcs:

```

+---x clear-ip-vrf-route-all {feature-list:HAVE_VRF}?
| +---w input
|   +---w vrf-name  string
+---x clear-ip-vrf-route {feature-list:HAVE_VRF}?
| +---w input

```

```

| +---w vrf-name      string
| +---w prefix-address  cml-data-types:cml_ipv4_prefix_t
+---x clear-ipv6-vrf-route-all {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
| +---w input
| +---w vrf-name      string
+---x clear-ipv6-vrf-route {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
  +---w input
    +---w vrf-name      string
    +---w prefix-ipv6-address  cml-data-types:cml_ipv6_prefix_t

```

notifications:

```

+---n vrf-ipv4-fib-routes-above-threshold {feature-list:HAVE_VRF}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type?  ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?  string
| +--ro max-limit?      uint32
| +--ro warning-threshold?  uint8
| +--ro threshold-exceeded?  boolean
| +--ro total-routes?    yang:counter32
+---n vrf-ipv4-fib-routes-below-threshold {feature-list:HAVE_VRF}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type?  ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?  string
| +--ro max-limit?      uint32
| +--ro warning-threshold?  uint8
| +--ro threshold-exceeded?  boolean
| +--ro total-routes?    yang:counter32
+---n vrf-ipv6-fib-routes-above-threshold {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type?  ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?  string
| +--ro max-limit?      uint32
| +--ro warning-threshold?  uint8

```

```

| +--ro threshold-exceeded?  boolean
| +--ro total-routes?        yang:counter32
+---n vrf-ipv6-fib-routes-below-threshold {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro instance-type?       ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?       string
| +--ro max-limit?           uint32
| +--ro warning-threshold?    uint8
| +--ro threshold-exceeded?  boolean
| +--ro total-routes?        yang:counter32
+---n vrf-ipv4-max-fib-routes-limit-reached {feature-list:HAVE_VRF}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro instance-type?       ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?       string
| +--ro max-limit?           uint32
| +--ro limit-action?        ipi-rib-types:rib_max_route_action_t
| +--ro total-routes?        yang:counter32
+---n vrf-ipv4-max-fib-routes-below-route-limit {feature-list:HAVE_VRF}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro instance-type?       ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?       string
| +--ro max-limit?           uint32
| +--ro limit-action?        ipi-rib-types:rib_max_route_action_t
| +--ro total-routes?        yang:counter32
+---n vrf-ipv6-max-fib-routes-limit-reached {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro instance-type?       ipi-network-instance-types:net_inst_type_t
| +--ro instance-name?       string
| +--ro max-limit?           uint32
| +--ro limit-action?        ipi-rib-types:rib_max_route_action_t
| +--ro total-routes?        yang:counter32
+---n vrf-ipv6-max-fib-routes-below-route-limit {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?

```

```

| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro max-limit?     uint32
| +--ro limit-action?  ipi-rib-types:rib_max_route_action_t
| +--ro total-routes?  yang:counter32
+---n ipv4-hw-fib-full {feature-list:HAVE_VRF}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro total-routes?  yang:counter32
+---n ipv4-hw-fib-full-cleared {feature-list:HAVE_VRF}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro total-routes?  yang:counter32
+---n ipv6-hw-fib-full {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro instance-type? ipi-network-instance-types:net_inst_type_t
| +--ro instance-name? string
| +--ro total-routes?  yang:counter32
+---n ipv6-hw-fib-full-cleared {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro instance-type? ipi-network-instance-types:net_inst_type_t
  +--ro instance-name? string
  +--ro total-routes?  yang:counter32

```

ipi-rib

```

+--rw routing
  +--rw global

```

```

| +--rw config
| | +--rw fib-retain?          ipi-rib-types:rib_fib_retain_t {feature-list:HAVE_L3}?
| | +--rw max-ecmp-paths?      uint8 {feature-list:HAVE_MULTIPATH}?
| | +--rw max-static-routes?   uint32
| | +--rw max-fib-routes?      uint32
| | +--rw ipv4-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
| | +--rw ipv6-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
| +--ro state
| | +--ro fib-retain?          ipi-rib-types:rib_fib_retain_t {feature-list:HAVE_L3}?
| | +--ro max-ecmp-paths?      uint8 {feature-list:HAVE_MULTIPATH}?
| | +--ro max-static-routes?   uint32
| | +--ro max-fib-routes?      uint32
| | +--ro ipv4-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD}?
| | +--ro ipv6-enable-bfd-all-interfaces? empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
| +--ro counters
|   +--ro total-routes-ipv4-vrf? yang:counter32
|   +--ro total-routes-ipv6-vrf? yang:counter32
+--rw debug
| +--rw config
| | +--rw rib-options?          ipi-rib-types:rib_conf_debug_t
| | +--rw ipv4-routing-options? ipi-rib-types:rib_debug_routing_t
| | +--rw ipv6-routing-options? ipi-rib-types:rib_debug_routing_t
| +--ro state
|   +--ro terminal-debug-status
|     +--ro rib-options?          ipi-rib-types:rib_debug_t
|     +--ro ip-routing-options?   ipi-rib-types:rib_debug_routing_t
|     +--ro ipv6-routing-options? ipi-rib-types:rib_debug_routing_t
|   +--ro rib-options?          ipi-rib-types:rib_conf_debug_t
|   +--ro ipv4-routing-options?   ipi-rib-types:rib_debug_routing_t
|   +--ro ipv6-routing-options?   ipi-rib-types:rib_debug_routing_t
+--rw static-routes
| +--rw ipv4
| | +--rw multicast-routes
| |   +--rw multicast-route* [source-prefix protocol-type]
| |     +--rw source-prefix  -> ../config/source-prefix
| |     +--rw protocol-type  -> ../config/protocol-type

```

```

| |   +--rw config
| |   | +--rw source-prefix?  cml-data-types:cml_ipv4_prefix_t
| |   | +--rw protocol-type?  ipi-rib-types:rib_mroute_route_type_t
| |   | +--rw gateway-address  inet:ipv4-address
| |   | +--rw distance?       uint32
| |   +--ro state
| |       +--ro source-prefix?  cml-data-types:cml_ipv4_prefix_t
| |       +--ro protocol-type?  ipi-rib-types:rib_mroute_route_type_t
| |       +--ro gateway-address  inet:ipv4-address
| |       +--ro distance?       uint32
| +--rw ipv6 {feature-list:HAVE_IPV6}?
|   +--rw multicast-routes
|     +--rw multicast-route* [source-prefix protocol-type]
|       +--rw source-prefix  -> ../config/source-prefix
|       +--rw protocol-type  -> ../config/protocol-type
|       +--rw config
|         | +--rw source-prefix?  cml-data-types:cml_ipv6_prefix_t
|         | +--rw protocol-type?  ipi-rib-types:rib_mroute_ipv6_route_type_t
|         +--ro state
|           | +--ro source-prefix?  cml-data-types:cml_ipv6_prefix_t
|           | +--ro protocol-type?  ipi-rib-types:rib_mroute_ipv6_route_type_t
|           +--rw nexthop
|             +--rw config!
|               | +--rw gateway-mroute  inet:ipv6-address
|               | +--rw distance?       uint32
|               +--ro state
|                 +--ro gateway-mroute  inet:ipv6-address
|                 +--ro distance?       uint32
+--ro srv6-sid-entries {feature-list:HAVE_SRV6}?
| +--ro srv6-sid-entry* [sid]
|   +--ro sid  -> ../state/sid
|   +--ro state
|     +--ro sid?      inet:ipv6-address
|     +--ro action?   string
|     +--ro ipv6-nexthop?  inet:ipv6-address
|     +--ro originator?  string

```

```

|   +--ro type?      string
|   +--ro uptime?    string
+--rw interfaces
  +--rw interface* [name] {feature-list:HAVE_BFD}?
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?  -> /ipi-interface:interfaces/interface/name
    +--rw state
      | +--rw name?  -> /ipi-interface:interfaces/interface/name
    +--rw bfd {feature-list:HAVE_BFD}?
      +--rw config
        | +--rw ipv4-enable-bfd?  ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD}?
        | +--rw ipv6-enable-bfd?  ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
      +--ro state
        +--ro ipv4-enable-bfd?  ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD}?
        +--ro ipv6-enable-bfd?  ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw static-routing
  +--rw ipv4
    | +--rw static-route* [prefix]
    |   +--rw prefix      -> ../config/prefix
    |   +--rw config
    |     | +--rw prefix?  cml-data-types:cml_ipv4_prefix_t
    |     +--ro state
    |       | +--ro prefix?  cml-data-types:cml_ipv4_prefix_t
    |     +--rw next-hops-gateway
    |       | +--rw next-hop-gateway* [gateway]
    |       |   +--rw gateway  -> ../config/gateway
    |       |   +--rw config
    |       |     | +--rw gateway?      inet:ipv4-address
    |       |     | +--rw interface?    string
    |       |     | +--rw tag?          uint32
    |       |     | +--rw recursive?    empty
    |       |     | +--rw distance?     uint32
    |       |     | +--rw track-id?     uint16 {feature-list:HAVE_OBJ_TRACKING}?

```



```
| | | +--rw description?          cml-data-types:cml_line_t
| | | +--rw enable-global-table-lookup? empty
| | | +--rw bfd-state?            ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
| | +--ro state
| |   +--ro gateway?             inet:ipv4-address
| |   +--ro interface?           string
| |   +--ro tag?                 uint32
| |   +--ro recursive?           empty
| |   +--ro distance?            uint32
| |   +--ro track-id?            uint16 {feature-list:HAVE_OBJ_TRACKING}?
| |   +--ro description?         cml-data-types:cml_line_t
| |   +--ro enable-global-table-lookup? empty
| |   +--ro bfd-state?           ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
| +--rw next-hops-interface
|   +--rw next-hop-interface* [interface]
|     +--rw interface -> ../config/interface
|     +--rw config
|       | +--rw interface?        string
|       | +--rw tag?              uint32
|       | +--rw distance?         uint32
|       | +--rw track-id?         uint16 {feature-list:HAVE_OBJ_TRACKING}?
|       | +--rw description?      cml-data-types:cml_line_t
|       | +--rw enable-global-table-lookup? empty
|       +--ro state
|         +--ro interface?        string
|         +--ro tag?              uint32
|         +--ro distance?         uint32
|         +--ro track-id?         uint16 {feature-list:HAVE_OBJ_TRACKING}?
|         +--ro description?      cml-data-types:cml_line_t
|         +--ro enable-global-table-lookup? empty
+--rw ipv6 {feature-list:HAVE_IPV6}?
  +--rw static-route* [prefix]
    +--rw prefix -> ../config/prefix
    +--rw config
      | +--rw prefix? cml-data-types:cml_ipv6_prefix_t
      +--ro state
```

```

| +--ro prefix?  cml-data-types:cml_ipv6_prefix_t
+--rw next-hops-gateway
| +--rw next-hop-gateway* [gateway]
|   +--rw gateway  -> ../config/gateway
|   +--rw config
|     | +--rw gateway?          inet:ipv6-address
|     | +--rw interface?       string
|     | +--rw recursive?       empty
|     | +--rw distance?        uint32
|     | +--rw track-id?        uint16 {feature-list:HAVE_OBJ_TRACKING}?
|     | +--rw description?     cml-data-types:cml_line_t
|     | +--rw enable-global-table-lookup? empty
|     | +--rw bfd-state?       ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
|   +--ro state
|     +--ro gateway?          inet:ipv6-address
|     +--ro interface?       string
|     +--ro recursive?       empty
|     +--ro distance?        uint32
|     +--ro track-id?        uint16 {feature-list:HAVE_OBJ_TRACKING}?
|     +--ro description?     cml-data-types:cml_line_t
|     +--ro enable-global-table-lookup? empty
|     +--ro bfd-state?       ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
+--rw next-hops-interface
  +--rw next-hop-interface* [interface]
    +--rw interface  -> ../config/interface
    +--rw config
      | +--rw interface?       string
      | +--rw distance?        uint32
      | +--rw track-id?        uint16 {feature-list:HAVE_OBJ_TRACKING}?
      | +--rw description?     cml-data-types:cml_line_t
      | +--rw enable-global-table-lookup? empty
    +--ro state
      +--ro interface?       string
      +--ro distance?        uint32
      +--ro track-id?        uint16 {feature-list:HAVE_OBJ_TRACKING}?
      +--ro description?     cml-data-types:cml_line_t

```

+---ro enable-global-table-lookup? empty

rpcs:

```

+---x rib-snmpp-restart {feature-list:HAVE_SNMP}?
+---x clear-ip-stale-kernel-routes {feature-list:HAVE_RIBD}?
+---x clear-ipv6-stale-kernel-routes {feature-list:HAVE_IPV6}?
+---x clear-ip-route-all {feature-list:HAVE_RIBD}?
+---x clear-ip-route {feature-list:HAVE_RIBD}?
| +---w input
|   +---w prefix-address  cml-data-types:cml_ipv4_prefix_t
+---x clear-ipv6-route-all {feature-list:HAVE_IPV6}?
+---x clear-ipv6-route {feature-list:HAVE_IPV6}?
| +---w input
|   +---w prefix-ipv6-address  cml-data-types:cml_ipv6_prefix_t
+---x rib-terminal-debug-on {feature-list:HAVE_RIBD}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_t
+---x rib-terminal-debug-off {feature-list:HAVE_RIBD}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_t
+---x rib-terminal-debug-ipv4-routing-on {feature-list:HAVE_RIBD}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_routing_t
+---x rib-terminal-debug-ipv4-routing-off {feature-list:HAVE_RIBD}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_routing_t
+---x rib-terminal-debug-ipv6-routing-on {feature-list:HAVE_IPV6}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_routing_t
+---x rib-terminal-debug-ipv6-routing-off {feature-list:HAVE_IPV6}?
| +---w input
|   +---w terminal-debug-options  ipi-rib-types:rib_debug_routing_t

```

ipi-rip

```

+--rw rip
  +--rw global
    | +--rw config
    | +--ro state
  +--rw debug
    | +--rw config
    | | +--rw options? ipi-rip-types:rip_debug_t
    | +--ro state
    | +--ro options? ipi-rip-types:rip_debug_t
    | +--ro terminal-debug-status? ipi-rip-types:rip_debug_t
  +--rw interfaces
    | +--rw interface* [name]
    | +--rw name -> ../config/name
    | +--rw config
    | | +--rw name? -> /ipi-interface:interfaces/interface/name
    | | +--rw disable-receive-packet? empty
    | | +--rw disable-send-packet? empty
    | | +--rw receive-version? ipi-rip-types:rip_version_t
    | | +--rw send-version? ipi-rip-types:rip_version_t
    | | +--rw auth-mode? ipi-rip-types:rip_auth_mode_t
    | | +--rw auth-string? cml-data-types:cml_line_t
    | | +--rw auth-keychain? string
    | | +--rw split-horizon? boolean
    | +--ro state
    | +--ro name? -> /ipi-interface:interfaces/interface/name
    | +--ro disable-receive-packet? empty
    | +--ro disable-send-packet? empty
    | +--ro receive-version? ipi-rip-types:rip_version_t
    | +--ro send-version? ipi-rip-types:rip_version_t
    | +--ro auth-mode? ipi-rip-types:rip_auth_mode_t
    | +--ro auth-string? cml-data-types:cml_line_t
    | +--ro auth-keychain? string
    | +--ro split-horizon? boolean
    | +--ro statistics

```

```

|   +--ro sent-mcast-updates?      yang:counter32
|   +--ro sent-mcast-requests?     yang:counter32
|   +--ro sent-unicast-updates?     yang:counter32
|   +--ro sent-unicast-requests?    yang:counter32
|   +--ro received-mcast-updates?   yang:counter32
|   +--ro received-mcast-requests?  yang:counter32
|   +--ro received-unicast-updates? yang:counter32
|   +--ro received-unicast-requests? yang:counter32
|   +--ro received-bad-packets?     yang:counter32
|   +--ro received-bad-routes?     yang:counter32
+--rw instance
  +--rw config!
    | +--rw rip-enabled              empty
    | +--rw bfd-enable?             empty {feature-list:HAVE_BFD}?
    | +--rw receive-buffer-size?    uint32
    | +--rw passive-interfaces*     -> /ipi-interface:interfaces/interface/name
    | +--rw static-routes*          cml-data-types:cml_ipv4_prefix_t
    | +--rw neighbors*              inet:ipv4-address
    | +--rw neighbor-fall-over-bfd* inet:ipv4-address {feature-list:HAVE_BFD}?
    | +--rw enable-cisco-metric-behavior? cml-data-types:cml_enable_disable_t
    | +--rw default-metric?         uint8
    | +--rw version?               uint8
    | +--rw distance?              uint8
    | +--rw network-interfaces*     -> /ipi-interface:interfaces/interface/name
    | +--rw network-routes*         cml-data-types:cml_ipv4_prefix_t
  +--ro state
    | +--ro rip-enabled              empty
    | +--ro bfd-enable?             empty {feature-list:HAVE_BFD}?
    | +--ro receive-buffer-size?    uint32
    | +--ro passive-interfaces*     -> /ipi-interface:interfaces/interface/name
    | +--ro static-routes*          cml-data-types:cml_ipv4_prefix_t
    | +--ro neighbors*              inet:ipv4-address
    | +--ro neighbor-fall-over-bfd* inet:ipv4-address {feature-list:HAVE_BFD}?
    | +--ro enable-cisco-metric-behavior? cml-data-types:cml_enable_disable_t
    | +--ro default-metric?         uint8
    | +--ro version?               uint8

```

```
| +--ro distance?          uint8
| +--ro network-interfaces*  -> /ipi-interface:interfaces/interface/name
| +--ro network-routes*     cml-data-types:cml_ipv4_prefix_t
+--rw distances
| +--rw distance* [source-prefix]
|   +--rw source-prefix  -> ../config/source-prefix
|   +--rw config
|     | +--rw source-prefix?  cml-data-types:cml_ipv4_prefix_t
|     | +--rw distance      uint8
|     | +--rw access-list-name? string
|     +--ro state
|       +--ro source-prefix?  cml-data-types:cml_ipv4_prefix_t
|       +--ro distance      uint8
|       +--ro access-list-name? string
+--rw timers
| +--rw config!
| | +--rw route-table-update-interval  uint32
| | +--rw route-info-timeout-interval  uint32
| | +--rw garbage-collection-interval  uint32
| +--ro state
|   +--ro route-table-update-interval  uint32
|   +--ro route-info-timeout-interval  uint32
|   +--ro garbage-collection-interval  uint32
+--rw maximum-prefix
| +--rw config!
| | +--rw max-routes          uint32
| | +--rw warning-threshold-percentage? uint32
| +--ro state
|   +--ro max-routes          uint32
|   +--ro warning-threshold-percentage? uint32
+--rw redistribute-policies
| +--rw redistribute-policy* [route-type]
|   +--rw route-type  -> ../config/route-type
|   +--rw config
|     | +--rw route-type?  ipi-rip-types:rip_redistribute_proto_t
|     | +--rw metric?      uint8
```

```

| | +--rw route-map?  string
|   +--ro state
|     +--ro route-type?  ipi-rip-types:rip_redistribute_proto_t
|     +--ro metric?      uint8
|     +--ro route-map?   string
+--rw default-information
| +--rw config!
| | +--rw originate      empty
| | +--rw always-advertise?  empty
| | +--rw route-map?      string
| +--ro state
|   +--ro originate      empty
|   +--ro always-advertise?  empty
|   +--ro route-map?      string
+--rw offset-lists
| +--rw offset-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|   | +--rw direction?      ipi-rip-types:rip_direction_t
|   | +--rw access-list-name  string
|   | +--rw metric          uint8
|   +--ro state
|     +--ro direction?      ipi-rip-types:rip_direction_t
|     +--ro access-list-name  string
|     +--ro metric          uint8
+--rw distribute-filter-lists
| +--rw distribute-filter-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|   | +--rw direction?      ipi-rip-types:rip_direction_t
|   | +--rw access-list-name  string
|   +--ro state
|     +--ro direction?      ipi-rip-types:rip_direction_t
|     +--ro access-list-name  string
+--rw distribute-prefix-lists
| +--rw distribute-prefix-list* [direction]

```

```
|  +--rw direction  -> ../config/direction
|  +--rw config
|  |  +--rw direction?      ipi-rip-types:rip_direction_t
|  |  +--rw access-list-name  string
|  +--ro state
|  +--ro direction?      ipi-rip-types:rip_direction_t
|  +--ro access-list-name  string
+--rw interfaces
| +--rw interface* [name]
|  +--rw name          -> ../config/name
|  +--rw config
|  |  +--rw name?  -> /ipi-interface:interfaces/interface/name
|  +--ro state
|  |  +--ro name?  -> /ipi-interface:interfaces/interface/name
|  +--rw offset-lists
|  |  +--rw offset-list* [direction]
|  |  |  +--rw direction  -> ../config/direction
|  |  |  +--rw config
|  |  |  |  +--rw direction?      ipi-rip-types:rip_direction_t
|  |  |  |  +--rw access-list-name  string
|  |  |  |  +--rw metric          uint8
|  |  |  +--ro state
|  |  |  +--ro direction?      ipi-rip-types:rip_direction_t
|  |  |  +--ro access-list-name  string
|  |  |  +--ro metric          uint8
|  +--rw distribute-filter-lists
|  |  +--rw distribute-filter-list* [direction]
|  |  |  +--rw direction  -> ../config/direction
|  |  |  +--rw config
|  |  |  |  +--rw direction?      ipi-rip-types:rip_direction_t
|  |  |  |  +--rw access-list-name  string
|  |  |  +--ro state
|  |  |  +--ro direction?      ipi-rip-types:rip_direction_t
|  |  |  +--ro access-list-name  string
|  +--rw distribute-prefix-lists
|  |  +--rw distribute-prefix-list* [direction]
```

```

|      +--rw direction  -> ../config/direction
|      +--rw config
|      | +--rw direction?      ipi-rip-types:rip_direction_t
|      | +--rw access-list-name  string
|      +--ro state
|      +--ro direction?      ipi-rip-types:rip_direction_t
|      +--ro access-list-name  string
+--ro routes
| +--ro route* [prefix]
| +--ro prefix  -> ../state/prefix
| +--ro state
| | +--ro prefix?      cml-data-types:cml_ipv4_prefix_t
| | +--ro type?      ipi-rip-types:rip_route_type_t
| | +--ro rip-sub-type? ipi-rip-types:rip_route_subtype_t
| | +--ro tag?      uint16
| +--ro nexthops
| +--ro nexthop* [address]
| +--ro address  -> ../state/address
| +--ro state
| +--ro address?  inet:ipv4-address
| +--ro if-name?  string
| +--ro metric?   uint8
| +--ro up-time?  string
+--rw vrfs
+--rw vrf* [vrf-name]
+--rw vrf-name      -> ../config/vrf-name
+--rw config
| +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
| +--rw enable-cisco-metric-behavior?  cml-data-types:cml_enable_disable_t
| +--rw default-metric?      uint8
| +--rw version?      uint8
| +--rw distance?      uint8
| +--rw network-interfaces*      -> /ipi-interface:interfaces/interface/name
| +--rw network-routes*      cml-data-types:cml_ipv4_prefix_t
+--ro state

```

```

| +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
| +--ro enable-cisco-metric-behavior?  cml-data-types:cml_enable_disable_t
| +--ro default-metric?      uint8
| +--ro version?            uint8
| +--ro distance?          uint8
| +--ro network-interfaces*    -> /ipi-interface:interfaces/interface/name
| +--ro network-routes*      cml-data-types:cml_ipv4_prefix_t
+--rw distances
| +--rw distance* [source-prefix]
|   +--rw source-prefix  -> ../config/source-prefix
|   +--rw config
|     | +--rw source-prefix?  cml-data-types:cml_ipv4_prefix_t
|     | +--rw distance      uint8
|     | +--rw access-list-name? string
|     +--ro state
|       +--ro source-prefix?  cml-data-types:cml_ipv4_prefix_t
|       +--ro distance      uint8
|       +--ro access-list-name? string
+--rw redistribute-policies
| +--rw redistribute-policy* [route-type]
|   +--rw route-type  -> ../config/route-type
|   +--rw config
|     | +--rw route-type?  ipi-rip-types:rip_vrf_redistribute_proto_t
|     | +--rw metric?    uint8
|     | +--rw route-map?  string
|     +--ro state
|       +--ro route-type?  ipi-rip-types:rip_vrf_redistribute_proto_t
|       +--ro metric?    uint8
|       +--ro route-map?  string
+--rw default-information
| +--rw config!
| | +--rw originate      empty
| | +--rw always-advertise? empty
| | +--rw route-map?    string
| +--ro state
|   +--ro originate      empty

```

```

|   +--ro always-advertise?  empty
|   +--ro route-map?         string
+--rw offset-lists
|   +--rw offset-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   +--rw access-list-name  string
|   |   +--rw metric          uint8
|   +--ro state
|   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   +--ro access-list-name  string
|   |   +--ro metric          uint8
+--rw distribute-filter-lists
|   +--rw distribute-filter-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   +--rw access-list-name  string
|   +--ro state
|   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   +--ro access-list-name  string
+--rw distribute-prefix-lists
|   +--rw distribute-prefix-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   +--rw access-list-name  string
|   +--ro state
|   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   +--ro access-list-name  string
+--rw interfaces
|   +--rw interface* [name]
|   +--rw name          -> ../config/name
|   +--rw config
|   |   +--rw name?  -> /ipi-interface:interfaces/interface/name

```

```

|   +--ro state
|   |   +--ro name?  -> /ipi-interface:interfaces/interface/name
|   +--rw offset-lists
|   |   +--rw offset-list* [direction]
|   |   |   +--rw direction  -> ../config/direction
|   |   |   +--rw config
|   |   |   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   |   |   +--rw access-list-name  string
|   |   |   |   +--rw metric            uint8
|   |   +--ro state
|   |   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   |   +--ro access-list-name  string
|   |   |   +--ro metric            uint8
|   +--rw distribute-filter-lists
|   |   +--rw distribute-filter-list* [direction]
|   |   |   +--rw direction  -> ../config/direction
|   |   |   +--rw config
|   |   |   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   |   |   +--rw access-list-name  string
|   |   +--ro state
|   |   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   |   +--ro access-list-name  string
|   +--rw distribute-prefix-lists
|   |   +--rw distribute-prefix-list* [direction]
|   |   |   +--rw direction  -> ../config/direction
|   |   |   +--rw config
|   |   |   |   +--rw direction?      ipi-rip-types:rip_direction_t
|   |   |   |   +--rw access-list-name  string
|   |   +--ro state
|   |   |   +--ro direction?      ipi-rip-types:rip_direction_t
|   |   |   +--ro access-list-name  string
+--ro routes
+--ro route* [prefix]
+--ro prefix  -> ../state/prefix
+--ro state
|   +--ro prefix?      cml-data-types:cml_ipv4_prefix_t

```

```

| +--ro type?      ipi-rip-types:rip_route_type_t
| +--ro rip-sub-type? ipi-rip-types:rip_route_subtype_t
| +--ro tag?       uint16
+--ro nexthops
  +--ro nexthop* [address]
    +--ro address -> ../state/address
    +--ro state
      +--ro address? inet:ipv4-address
      +--ro if-name? string
      +--ro metric?  uint8
      +--ro up-time? string

```

rpcs:

```

+---x rip-vrf-clear-route {feature-list:HAVE_VRF_RIP,feature-list:HAVE_RIPD}?
| +---w input
|   +---w vrf-name  string
|   +---w prefix    cml-data-types:cml_ipv4_prefix_t
+---x rip-vrf-clear-route-all {feature-list:HAVE_VRF_RIP,feature-list:HAVE_RIPD}?
| +---w input
|   +---w vrf-name  string
+---x rip-clear-route {feature-list:HAVE_RIPD}?
| +---w input
|   +---w route-type ipi-rip-types:rip_redistribute_proto_clear_t
+---x rip-clear-route-prefix {feature-list:HAVE_RIPD}?
| +---w input
|   +---w prefix-address cml-data-types:cml_ipv4_prefix_t
+---x rip-clear-statistics {feature-list:HAVE_RIPD}?
| +---w input
|   +---w name  string
+---x rip-snmp-restart {feature-list:HAVE_SNMP}?
+---x rip-terminal-debugging-on {feature-list:HAVE_RIPD}?
| +---w input
|   +---w terminal-debug-options ipi-rip-types:rip_debug_t
+---x rip-terminal-debugging-off {feature-list:HAVE_RIPD}?
  +---w input
    +---w terminal-debug-options ipi-rip-types:rip_debug_t

```

ipi-ripng

```

+--rw ripng
  +--rw debug
    | +--rw config
    | | +--rw options? ipi-ripng-types:ripng_debug_t
    | +--ro state
    |   +--ro options? ipi-ripng-types:ripng_debug_t
    |   +--ro terminal-debug-status? ipi-ripng-types:ripng_debug_t
  +--rw interfaces
    | +--rw interface* [name]
    |   +--rw name -> ../config/name
    |   +--rw config
    |   | +--rw name? -> /ipi-interface:interfaces/interface/name
    |   | +--rw enabled? empty
    |   | +--rw split-horizon? boolean
    |   | +--rw metric-offset? uint8
    |   +--ro state
    |     +--ro name? -> /ipi-interface:interfaces/interface/name
    |     +--ro enabled? empty
    |     +--ro split-horizon? boolean
    |     +--ro metric-offset? uint8
  +--rw instance
    +--rw config!
    | +--rw ripng-enabled empty
    | +--rw passive-interfaces* -> /ipi-interface:interfaces/interface/name
    | +--rw distance? uint8
    | +--rw static-routes* cml-data-types:cml_ipv6_prefix_t
    | +--rw aggregate-prefixes* cml-data-types:cml_ipv6_prefix_t
    | +--rw default-metric? uint8
    | +--rw originate-default-route? empty
    | +--rw enable-cisco-metric-behavior? boolean

```

```
| +--rw receive-buffer-size?      uint32
+--ro state
| +--ro ripng-enabled              empty
| +--ro passive-interfaces*        -> /ipi-interface:interfaces/interface/name
| +--ro distance?                 uint8
| +--ro static-routes*             cml-data-types:cml_ipv6_prefix_t
| +--ro aggregate-prefixes*        cml-data-types:cml_ipv6_prefix_t
| +--ro default-metric?            uint8
| +--ro originate-default-route?   empty
| +--ro enable-cisco-metric-behavior? boolean
| +--ro receive-buffer-size?      uint32
+--rw redistribute-policies
| +--rw redistribute-policy* [route-type]
|   +--rw route-type -> ../config/route-type
|   +--rw config
|     | +--rw route-type? ipi-ripng-types:ripng_redistribute_proto_t
|     | +--rw metric?      uint8
|     | +--rw route-map?   string
|     +--ro state
|       +--ro route-type? ipi-ripng-types:ripng_redistribute_proto_t
|       +--ro metric?      uint8
|       +--ro route-map?   string
+--rw timers
| +--rw config!
| | +--rw route-table-update-interval  uint32
| | +--rw route-info-timeout-interval  uint32
| | +--rw garbage-collection-interval  uint32
| +--ro state
|   +--ro route-table-update-interval  uint32
|   +--ro route-info-timeout-interval  uint32
|   +--ro garbage-collection-interval  uint32
+--rw neighbors
| +--rw neighbor* [address]
|   +--rw address -> ../config/address
|   +--rw config
|     | +--rw address? inet:ipv6-address
```

```

| | +--rw if-name    -> /ipi-interface:interfaces/interface/name
| | +--ro state
| |   +--ro address?  inet:ipv6-address
| |   +--ro if-name    -> /ipi-interface:interfaces/interface/name
+--rw interfaces
| +--rw interface* [name]
| | +--rw name          -> ../config/name
| | +--rw config
| | | +--rw name?      -> /ipi-interface:interfaces/interface/name
| | | +--ro state
| | | | +--ro name?    -> /ipi-interface:interfaces/interface/name
| | | +--rw filtering-route-maps
| | | | +--rw filtering-route-map* [type]
| | | | | +--rw type    -> ../config/type
| | | | | +--rw config
| | | | | | +--rw type?      ipi-ripng-types:ripng_direction_t
| | | | | | +--rw route-map-name  string
| | | | | +--ro state
| | | | | | +--ro type?      ipi-ripng-types:ripng_direction_t
| | | | | | +--ro route-map-name  string
| | | +--rw offset-lists
| | | | +--rw offset-list* [direction]
| | | | | +--rw direction    -> ../config/direction
| | | | | +--rw config
| | | | | | +--rw direction?    ipi-ripng-types:ripng_direction_t
| | | | | | +--rw access-list-name  string
| | | | | | +--rw metric          uint8
| | | | | +--ro state
| | | | | | +--ro direction?    ipi-ripng-types:ripng_direction_t
| | | | | | +--ro access-list-name  string
| | | | | | +--ro metric          uint8
| | | +--rw distribute-lists
| | | | +--rw distribute-list* [direction]
| | | | | +--rw direction    -> ../config/direction
| | | | | +--rw config
| | | | | | +--rw direction?    ipi-ripng-types:ripng_direction_t

```

```

| | | +--rw access-list-name  string
| |   +--ro state
| |     +--ro direction?      ipi-ripng-types:ripng_direction_t
| |     +--ro access-list-name  string
| +--rw distribute-prefix-lists
|   +--rw distribute-prefix-list* [direction]
|     +--rw direction  -> ../config/direction
|     +--rw config
|       | +--rw direction? ipi-ripng-types:ripng_direction_t
|       | +--rw list-name  string
|       +--ro state
|         +--ro direction? ipi-ripng-types:ripng_direction_t
|         +--ro list-name  string
+--rw offset-lists
| +--rw offset-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|     | +--rw direction?      ipi-ripng-types:ripng_direction_t
|     | +--rw access-list-name  string
|     | +--rw metric          uint8
|     +--ro state
|       +--ro direction?      ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name  string
|       +--ro metric          uint8
+--rw distribute-lists
| +--rw distribute-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|     | +--rw direction?      ipi-ripng-types:ripng_direction_t
|     | +--rw access-list-name  string
|     +--ro state
|       +--ro direction?      ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name  string
+--rw distribute-prefix-lists
| +--rw distribute-prefix-list* [direction]
|   +--rw direction  -> ../config/direction

```

```

|   +--rw config
|   |   +--rw direction?  ipi-ripng-types:ripng_direction_t
|   |   +--rw list-name   string
|   +--ro state
|       +--ro direction?  ipi-ripng-types:ripng_direction_t
|       +--ro list-name   string
+--ro routes
| +--ro route* [prefix]
|   +--ro prefix          -> ../state/prefix
|   +--ro state
|       | +--ro prefix?    cml-data-types:cml_ipv6_prefix_t
|       | +--ro type?      ipi-ripng-types:ripng_route_type_t
|       | +--ro sub-type?  ipi-ripng-types:ripng_route_sub_type_t
|       | +--ro tag?       uint16
|       +--ro next-hops
|           | +--ro next-hop* [address]
|           |   +--ro address -> ../state/address
|           |   +--ro state
|           |       +--ro address?  inet:ipv6-address
|           |       +--ro if-name?  string
|           |       +--ro metric?   uint8
|           |       +--ro up-time?  string
|       +--ro aggregate-route
|           +--ro state
|               +--ro count?  uint32
|               +--ro metric?  uint8
|               +--ro tag?    uint16
+--rw vrfs
    +--rw vrf* [vrf-name]
        +--rw vrf-name          -> ../config/vrf-name
        +--rw config
            | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
            | +--rw passive-interfaces* -> /ipi-interface:interfaces/interface/name
            | +--rw distance?         uint8
            | +--rw static-routes*    cml-data-types:cml_ipv6_prefix_t
            | +--rw aggregate-prefixes* cml-data-types:cml_ipv6_prefix_t

```

```

| +--rw default-metric?          uint8
| +--rw originate-default-route?  empty
| +--rw enable-cisco-metric-behavior?  boolean
| +--rw receive-buffer-size?      uint32
+--ro state
vrf-name | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
| +--ro passive-interfaces*       -> /ipi-interface:interfaces/interface/name
| +--ro distance?                uint8
| +--ro static-routes*           cml-data-types:cml_ipv6_prefix_t
| +--ro aggregate-prefixes*      cml-data-types:cml_ipv6_prefix_t
| +--ro default-metric?          uint8
| +--ro originate-default-route?  empty
| +--ro enable-cisco-metric-behavior?  boolean
| +--ro receive-buffer-size?      uint32
+--rw redistribute-policies
| +--rw redistribute-policy* [route-type]
|   +--rw route-type   -> ../config/route-type
|   +--rw config
|     | +--rw route-type? ipi-ripng-types:ripng_vrf_redistribute_proto_t
|     | +--rw metric?    uint8
|     | +--rw route-map? string
|     +--ro state
|       +--ro route-type? ipi-ripng-types:ripng_vrf_redistribute_proto_t
|       +--ro metric?    uint8
|       +--ro route-map? string
+--rw timers
| +--rw config!
| | +--rw route-table-update-interval  uint32
| | +--rw route-info-timeout-interval  uint32
| | +--rw garbage-collection-interval  uint32
| +--ro state
|   +--ro route-table-update-interval  uint32
|   +--ro route-info-timeout-interval  uint32
|   +--ro garbage-collection-interval  uint32
+--rw neighbors
| +--rw neighbor* [address]

```

```

|   +--rw address   -> ../config/address
|   +--rw config
|   |   +--rw address?  inet:ipv6-address
|   |   +--rw if-name   -> /ipi-interface:interfaces/interface/name
|   |   +--ro state
|   |       +--ro address?  inet:ipv6-address
|   |       +--ro if-name   -> /ipi-interface:interfaces/interface/name
+--rw interfaces
|   +--rw interface* [name]
|   |   +--rw name               -> ../config/name
|   |   +--rw config
|   |   |   +--rw name?  -> /ipi-interface:interfaces/interface/name
|   |   |   +--ro state
|   |   |   |   +--ro name?  -> /ipi-interface:interfaces/interface/name
|   |   +--rw filtering-route-maps
|   |   |   +--rw filtering-route-map* [type]
|   |   |   |   +--rw type   -> ../config/type
|   |   |   |   +--rw config
|   |   |   |   |   +--rw type?      ipi-ripng-types:ripng_direction_t
|   |   |   |   |   +--rw route-map-name  string
|   |   |   |   |   +--ro state
|   |   |   |   |       +--ro type?      ipi-ripng-types:ripng_direction_t
|   |   |   |   |       +--ro route-map-name  string
|   |   +--rw offset-lists
|   |   |   +--rw offset-list* [direction]
|   |   |   |   +--rw direction  -> ../config/direction
|   |   |   |   +--rw config
|   |   |   |   |   +--rw direction?      ipi-ripng-types:ripng_direction_t
|   |   |   |   |   +--rw access-list-name  string
|   |   |   |   |   +--rw metric            uint8
|   |   |   |   |   +--ro state
|   |   |   |   |       +--ro direction?      ipi-ripng-types:ripng_direction_t
|   |   |   |   |       +--ro access-list-name  string
|   |   |   |   |       +--ro metric            uint8
|   |   +--rw distribute-lists
|   |   |   +--rw distribute-list* [direction]

```

```

| | +--rw direction -> ../config/direction
| | +--rw config
| | | +--rw direction?      ipi-ripng-types:ripng_direction_t
| | | +--rw access-list-name string
| | +--ro state
| |   +--ro direction?      ipi-ripng-types:ripng_direction_t
| |   +--ro access-list-name string
| +--rw distribute-prefix-lists
|   +--rw distribute-prefix-list* [direction]
|     +--rw direction -> ../config/direction
|     +--rw config
|       | +--rw direction? ipi-ripng-types:ripng_direction_t
|       | +--rw list-name  string
|       +--ro state
|         +--ro direction? ipi-ripng-types:ripng_direction_t
|         +--ro list-name  string
+--rw offset-lists
| +--rw offset-list* [direction]
|   +--rw direction -> ../config/direction
|   +--rw config
|     | +--rw direction?      ipi-ripng-types:ripng_direction_t
|     | +--rw access-list-name string
|     | +--rw metric          uint8
|     +--ro state
|       +--ro direction?      ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name string
|       +--ro metric          uint8
+--rw distribute-lists
| +--rw distribute-list* [direction]
|   +--rw direction -> ../config/direction
|   +--rw config
|     | +--rw direction?      ipi-ripng-types:ripng_direction_t
|     | +--rw access-list-name string
|     +--ro state
|       +--ro direction?      ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name string

```

```

+--rw distribute-prefix-lists
| +--rw distribute-prefix-list* [direction]
|   +--rw direction  -> ../config/direction
|   +--rw config
|     | +--rw direction?  ipi-ripng-types:ripng_direction_t
|     | +--rw list-name   string
|     +--ro state
|       +--ro direction?  ipi-ripng-types:ripng_direction_t
|       +--ro list-name   string
+--ro routes
+--ro route* [prefix]
  +--ro prefix          -> ../state/prefix
  +--ro state
  | +--ro prefix?       cml-data-types:cml_ipv6_prefix_t
  | +--ro type?         ipi-ripng-types:ripng_route_type_t
  | +--ro sub-type?     ipi-ripng-types:ripng_route_sub_type_t
  | +--ro tag?          uint16
  +--ro next-hops
  | +--ro next-hop* [address]
  |   +--ro address     -> ../state/address
  |   +--ro state
  |     +--ro address?  inet:ipv6-address
  |     +--ro if-name?  string
  |     +--ro metric?   uint8
  |     +--ro up-time?  string
  +--ro aggregate-route
    +--ro state
      +--ro count?     uint32
      +--ro metric?     uint8
      +--ro tag?        uint16

```

rpcs:

```

+---x ripng-terminal-debug-on {feature-list:HAVE_RIPNGD}?
| +---w input
|   +---w terminal-debug-options  ipi-ripng-types:ripng_debug_t
+---x ripng-terminal-debug-off {feature-list:HAVE_RIPNGD}?

```

```

| +---w input
|   +---w terminal-debug-options   ipi-ripng-types:ripng_debug_t
+---x ripng-clear-route {feature-list:HAVE_RIPNGD}?
| +---w input
|   +---w type   ipi-ripng-types:ripng_clear_route_type_t
+---x ripng-clear-route-prefix {feature-list:HAVE_RIPNGD}?
    +---w input
        +---w prefix   cml-data-types:cml_ipv6_prefix_t

```

ipi-role-based-access-control

```

+--rw role-based-access-control
  +--rw config
    | +--rw enable?   empty
    +--ro state
      | +--ro enable?   empty
      +--rw policies
        | +--rw policy* [policy-name]
        |   +--rw policy-name   -> ../config/policy-name
        |   +--rw config
        |     | +--rw policy-name?   string
        |     +--ro state
        |       | +--ro policy-name?   string
        |       +--rw rules
        |         +--rw rule* [rule-name]
        |           +--rw rule-name   -> ../config/rule-name
        |           +--rw config
        |             | +--rw rule-name?   cml-data-types:cml_line_t
        |             | +--rw rule-type     ipi-role-based-access-control-types:rbac_rule_type_t
        |             | +--rw command-mode*   string
        |             +--ro state
        |               +--ro rule-name?   cml-data-types:cml_line_t
        |               +--ro rule-type     ipi-role-based-access-control-types:rbac_rule_type_t
        |               +--ro command-mode*   string
        +--rw roles

```

```

+--rw role* [role-name]
  +--rw role-name  -> ../config/role-name
  +--rw config
    | +--rw role-name?    string
    | +--rw default-policy? ipi-role-based-access-control-types:rbac_default_rule_type_t
  +--ro state
    | +--ro role-name?    string
    | +--ro default-policy? ipi-role-based-access-control-types:rbac_default_rule_type_t
  +--rw policies
    +--rw policy* [policy-name]
      +--rw policy-name  -> ../config/policy-name
      +--rw config
        | +--rw policy-name? -> /role-based-access-control/policies/policy/policy-name
      +--ro state
        +--ro policy-name? -> /role-based-access-control/policies/policy/policy-name

```

ipi-routemap

```

+--rw routemaps
  +--rw routemap* [routemap-name sequence-id]
    +--rw routemap-name  -> ../config/routemap-name
    +--rw sequence-id     -> ../config/sequence-id
    +--rw config
      | +--rw routemap-name? string
      | +--rw action        ipi-routemap-types:rmap_action_type_t
      | +--rw sequence-id?  uint32
    +--ro state
      | +--ro routemap-name? string
      | +--ro action        ipi-routemap-types:rmap_action_type_t
      | +--ro sequence-id?  uint32
    +--rw continue-on-match
      | +--rw config
        | | +--rw continue-to-next-sequence? empty
        | | +--rw next-sequence-number?    uint32
      | +--ro state

```

```
|  +--ro continue-to-next-sequence?  empty
|  +--ro next-sequence-number?      uint32
+--rw match-condition
|  +--rw config
|  |  +--rw interface-name?         -> /ipi-interface:interfaces/interface/name
|  |  +--rw metric?                 uint32
|  |  +--rw vlan-id?                cml-data-types:cml_range_t {feature-list:HAVE_VLAN,feature-list:HAVE_PBR}?
|  |  +--rw mac-access-list-name?   string {feature-list:HAVE_PBR}?
|  |  +--rw tag?                     uint32
|  |  +--rw route-type?             ipi-routemap-types:rmap_route_type_t
|  |  +--rw as-path-name?           string
|  |  +--rw route-origin?           ipi-routemap-types:rmap_origin_type_t
|  |  +--rw rpki-state?             ipi-routemap-types:rmap_rpki_state_type_t {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|  |  +--rw evpn-route-type?        ipi-routemap-types:rmap_evpn_route_type_t
|  |  +--rw route-map*              -> /routemaps/routemap/routemap-name
|  +--ro state
|  |  +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
|  |  +--ro metric?                 uint32
|  |  +--ro vlan-id?                cml-data-types:cml_range_t {feature-list:HAVE_VLAN,feature-list:HAVE_PBR}?
|  |  +--ro mac-access-list-name?   string {feature-list:HAVE_PBR}?
|  |  +--ro tag?                     uint32
|  |  +--ro route-type?             ipi-routemap-types:rmap_route_type_t
|  |  +--ro as-path-name?           string
|  |  +--ro route-origin?           ipi-routemap-types:rmap_origin_type_t
|  |  +--ro rpki-state?             ipi-routemap-types:rmap_rpki_state_type_t {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|  |  +--ro evpn-route-type?        ipi-routemap-types:rmap_evpn_route_type_t
|  |  +--ro route-map*              -> /routemaps/routemap/routemap-name
|  +--rw route-filter {feature-list:HAVE_PBR}?
|  |  +--rw packet-length-constraints* [packet-min-length packet-max-length] {feature-list:HAVE_PBR}?
|  |  |  +--rw packet-min-length   -> ../config/packet-min-length
|  |  |  +--rw packet-max-length   -> ../config/packet-max-length
|  |  +--rw config
|  |  |  +--rw packet-min-length?   uint16
|  |  |  +--rw packet-max-length?   uint16
|  |  +--ro state
```

```

| |   +--ro packet-min-length?  uint16
| |   +--ro packet-max-length?  uint16
| |   +--rw communities
| |   +--rw community* [community-identifier]
| |   +--rw community-identifier -> ../config/community-identifier
| |   +--rw config
| |   | +--rw community-identifier? ipi-routemap-types:rmmap_community_string_t
| |   | +--rw match-type            ipi-routemap-types:rmmap_community_type_t
| |   +--ro state
| |   +--ro community-identifier? ipi-routemap-types:rmmap_community_string_t
| |   +--ro match-type            ipi-routemap-types:rmmap_community_type_t
| +--rw extended-communities
| | +--rw extended-community* [extended-community-identifier]
| | +--rw extended-community-identifier -> ../config/extended-community-identifier
| | +--rw config
| | | +--rw extended-community-identifier? ipi-routemap-types:rmmap_extcommunity_string_t
| | | +--rw match-type                    ipi-routemap-types:rmmap_extcommunity_type_t
| | +--ro state
| | +--ro extended-community-identifier? ipi-routemap-types:rmmap_extcommunity_string_t
| | +--ro match-type                    ipi-routemap-types:rmmap_extcommunity_type_t
| +--rw match-communities
| | +--rw match-community* [large-community-list-identifier]
| | +--rw large-community-list-identifier -> ../config/large-community-list-identifier
| | +--rw config
| | | +--rw large-community-list-identifier? ipi-routemap-types:rmmap_large_community_string_t
| | | +--rw match-type                    ipi-routemap-types:rmmap_community_type_t
| | +--ro state
| | +--ro large-community-list-identifier? ipi-routemap-types:rmmap_large_community_string_t
| | +--ro match-type                    ipi-routemap-types:rmmap_community_type_t
| +--rw ipv4
| | +--rw config
| | | +--rw ip-access-list-name?    string
| | | +--rw ip-prefix-list-name?    string
| | | +--rw peer-access-list-name?  string
| | | +--rw next-hop-prefix-list-name? string
| | | +--rw next-hop-access-list-name? string

```

```

| | +--ro state
| |   +--ro ip-access-list-name?    string
| |   +--ro ip-prefix-list-name?    string
| |   +--ro peer-access-list-name?   string
| |   +--ro next-hop-prefix-list-name? string
| |   +--ro next-hop-access-list-name? string
| +--rw ipv6 {feature-list:HAVE_IPV6}?
| | +--rw config {feature-list:HAVE_IPV6}?
| | | +--rw ipv6-address-access-list-name? string
| | | +--rw ipv6-prefix-list-name?    string
| | | +--rw peer-access-list-name?    string
| | | +--rw next-hop-prefix-list-name? string
| | | +--rw next-hop-match-string?    ipi-routemap-types:rmmap_ipv6_nexthop_t
| | +--ro state
| |   +--ro ipv6-address-access-list-name? string
| |   +--ro ipv6-prefix-list-name?    string
| |   +--ro peer-access-list-name?    string
| |   +--ro next-hop-prefix-list-name? string
| |   +--ro next-hop-match-string?    ipi-routemap-types:rmmap_ipv6_nexthop_t
| +--rw mac
|   +--rw config
|   | +--rw mac-list-name? string
|   +--ro state
|     +--ro mac-list-name? string
+--rw set-action
  +--rw config
  | +--rw forward-interface-type?    ipi-routemap-types:rmmap_forward_interface_type_t
  | +--rw metric-value?              string
  | +--rw route-tag?                 uint32
  | +--rw weight?                    uint32
  | +--rw local-preference?           uint32
  | +--rw route-origin-type?          ipi-routemap-types:rmmap_origin_type_t
  | +--rw metric-type?                ipi-routemap-types:rmmap_metric_type_t
  | +--rw aigp-metric?                ipi-routemap-types:aigp_metric_type_t {feature-list:HAVE_BGP_AIGP}?
  | +--rw level-type?                 ipi-routemap-types:rmmap_level_type_t
  | +--rw enable-as-path-tag?         empty

```

```

| +--rw atomic-aggregate?          empty
| +--rw delete-community-value?    ipi-routemap-types:rmap_community_string_t
| +--rw delete-large-community-value? ipi-routemap-types:rmap_community_string_t
| +--rw bgp-originator-id?         inet:ipv4-address
| +--rw as-path-prepend?           cml-data-types:cml_line_t
| +--rw ext-community-site-of-origin? cml-data-types:cml_line_t
| +--rw ext-community-color?       uint32
+--ro state
| +--ro forward-interface-type?    ipi-routemap-types:rmap_forward_interface_type_t
| +--ro metric-value?              string
| +--ro route-tag?                 uint32
| +--ro weight?                    uint32
| +--ro local-preference?          uint32
| +--ro route-origin-type?         ipi-routemap-types:rmap_origin_type_t
| +--ro metric-type?               ipi-routemap-types:rmap_metric_type_t
| +--ro aigp-metric?               ipi-routemap-types:aigp_metric_type_t {feature-list:HAVE_BGP_AIGP}?
| +--ro level-type?                ipi-routemap-types:rmap_level_type_t
| +--ro enable-as-path-tag?        empty
| +--ro atomic-aggregate?          empty
| +--ro delete-community-value?    ipi-routemap-types:rmap_community_string_t
| +--ro delete-large-community-value? ipi-routemap-types:rmap_community_string_t
| +--ro bgp-originator-id?         inet:ipv4-address
| +--ro as-path-prepend?           cml-data-types:cml_line_t
| +--ro ext-community-site-of-origin? cml-data-types:cml_line_t
| +--ro ext-community-color?       uint32
+--rw ipv4
| +--rw config
| | +--rw ip-nexthop-address?      inet:ipv4-address
| | +--rw use-peer-address?        empty
| | +--rw ip-nexthop-self?         empty
| | +--rw default-nexthop-address? inet:ipv4-address {feature-list:HAVE_PBR}?
| | +--rw vpnv4-nexthop-address?   inet:ipv4-address {feature-list:HAVE_VRF}?
| | +--rw verify-availability?      empty {feature-list:HAVE_OBJ_TRACKING}?
| | +--rw track-id?                uint16 {feature-list:HAVE_OBJ_TRACKING}?
| +--ro state
|   +--ro ip-nexthop-address?      inet:ipv4-address

```

```

| +--ro use-peer-address?      empty
| +--ro ip-nexthop-self?      empty
| +--ro default-nexthop-address?  inet:ipv4-address {feature-list:HAVE_PBR}?
| +--ro vpv4-nexthop-address?  inet:ipv4-address {feature-list:HAVE_VRF}?
| +--ro verify-availability?   empty {feature-list:HAVE_OBJ_TRACKING}?
| +--ro track-id?             uint16 {feature-list:HAVE_OBJ_TRACKING}?
+--rw ipv6
| +--rw config
| | +--rw ipv6-nexthop-address?      inet:ipv6-address {feature-list:HAVE_IPV6}?
| | +--rw default-ipv6-nexthop-address?  inet:ipv6-address {feature-list:HAVE_PBR,feature-list:HAVE_IPV6}?
| | +--rw local-ipv6-nexthop-address?  inet:ipv6-address {feature-list:HAVE_IPV6}?
| | +--rw verify-availability?        empty {feature-list:HAVE_OBJ_TRACKING}?
| | +--rw track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
| +--ro state
| +--ro ipv6-nexthop-address?      inet:ipv6-address {feature-list:HAVE_IPV6}?
| +--ro default-ipv6-nexthop-address?  inet:ipv6-address {feature-list:HAVE_PBR,feature-list:HAVE_IPV6}?
| +--ro local-ipv6-nexthop-address?  inet:ipv6-address {feature-list:HAVE_IPV6}?
| +--ro verify-availability?        empty {feature-list:HAVE_OBJ_TRACKING}?
| +--ro track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
+--rw bgp-aggregator-attributes
| +--rw bgp-aggregator-attribute* [as-number aggregator-ip-address]
| +--rw as-number          -> ../config/as-number
| +--rw aggregator-ip-address  -> ../config/aggregator-ip-address
| +--rw config
| | +--rw as-number?          uint32
| | +--rw aggregator-ip-address?  inet:ipv4-address
| +--ro state
| +--ro as-number?            uint32
| +--ro aggregator-ip-address?  inet:ipv4-address
+--rw extended-community
| +--rw route-targets
| | +--rw route-target* [ext-community-rt]
| | +--rw ext-community-rt  -> ../config/ext-community-rt
| | +--rw config
| | | +--rw ext-community-rt?  cml-data-types:cml_line_t
| | | +--rw additive-type      ipi-routemap-types:rmap_additive_type_t

```

```

| | +--ro state
| |   +--ro ext-community-rt?  cml-data-types:cml_line_t
| |   +--ro additive-type     ipi-routemap-types:rmap_additive_type_t
| +--rw costs
|   +--rw cost* [comparison-type community-id cost-value]
|     +--rw comparison-type  -> ../config/comparison-type
|     +--rw community-id     -> ../config/community-id
|     +--rw cost-value       -> ../config/cost-value
|     +--rw config
|       | +--rw comparison-type? ipi-routemap-types:rmap_ext_cost_type_t
|       | +--rw community-id?    uint8
|       | +--rw cost-value?     uint32
|       +--ro state
|         +--ro comparison-type? ipi-routemap-types:rmap_ext_cost_type_t
|         +--ro community-id?    uint8
|         +--ro cost-value?     uint32
+--rw dampening
| +--rw config!
| | +--rw enable-dampening      empty
| | +--rw reachability-half-life-time?  uint8
| | +--rw reuse-time-limit?      uint16
| | +--rw suppress-time-limit?    uint16
| | +--rw max-suppress-time-limit?  uint8
| | +--rw unreachable-half-life-time?  uint8
| +--ro state
|   +--ro enable-dampening      empty
|   +--ro reachability-half-life-time?  uint8
|   +--ro reuse-time-limit?      uint16
|   +--ro suppress-time-limit?    uint16
|   +--ro max-suppress-time-limit?  uint8
|   +--ro unreachable-half-life-time?  uint8
+--rw communities
| +--rw config
| | +--rw enable-internet?      empty
| | +--rw enable-local-as?      empty
| | +--rw enable-blackhole?    empty

```

```
| | +--rw enable-no-advertise?    empty
| | +--rw enable-no-export?      empty
| | +--rw no-community-attribute? empty
| | +--rw additive-set?          empty
| | +--rw community-number?      cml-data-types:cml_line_t
| | +--rw community-with-as-number? cml-data-types:cml_line_t
| +--ro state
|   +--ro enable-internet?      empty
|   +--ro enable-local-as?      empty
|   +--ro enable-blackhole?     empty
|   +--ro enable-no-advertise?   empty
|   +--ro enable-no-export?     empty
|   +--ro no-community-attribute? empty
|   +--ro additive-set?         empty
|   +--ro community-number?      cml-data-types:cml_line_t
|   +--ro community-with-as-number? cml-data-types:cml_line_t
+--rw large-communities
  +--rw large-community* [large-community-number-set]
    +--rw large-community-number-set -> ../config/large-community-number-set
    +--rw config
      | +--rw large-community-number-set? cml-data-types:cml_line_t
      | +--rw additive-type              ipi-routemap-types:rmap_additive_type_t
      +--ro state
        +--ro large-community-number-set? cml-data-types:cml_line_t
        +--ro additive-type              ipi-routemap-types:rmap_additive_type_t
```

ipi-rsvp

```
+--rw rsvp-te
  +--ro admin-group* [name]
    | +--ro name -> ../state/name
    | +--ro state
```

```
|  +--ro name?  string
|  +--ro value? uint32
+--rw debug
|  +--rw config
|  |  +--rw options? ipi-rsvp-types:rsvp_debug_t
|  +--ro state
|  |  +--ro options?          ipi-rsvp-types:rsvp_debug_t
|  |  +--ro terminal-debug-status? ipi-rsvp-types:rsvp_debug_t
+--rw snmp-configuration
|  +--rw config
|  |  +--rw enable-rsvp-trap? empty {feature-list:HAVE_SNMP}?
|  +--ro state
|  |  +--ro enable-rsvp-trap? empty {feature-list:HAVE_SNMP}?
+--ro dscp
|  +--ro state
|  |  +--ro class-exp-mapping*   uint32 {feature-list:NOT_HAVE_SWFWDR}?
|  |  +--ro class-exp-mapping-value* uint8 {feature-list:NOT_HAVE_SWFWDR}?
+--rw rsvp-instance
|  +--ro summary-refresh* [address epoch message-id]
|  |  +--ro address    -> ../state/address
|  |  +--ro epoch      -> ../state/epoch
|  |  +--ro message-id -> ../state/message-id
|  |  +--ro state
|  |  |  +--ro address?      inet:ip-address
|  |  |  +--ro epoch?       uint32
|  |  |  +--ro message-id?   uint32
|  |  |  +--ro trunk-id?     uint32
|  |  |  +--ro direction?    string
|  |  |  +--ro lsp-id?       uint16
|  |  |  +--ro session-fr-type? ipi-rsvp-types:rsvp_session_frr_type_t
|  |  |  +--ro ingress?      inet:ip-address
|  |  |  +--ro egress?       inet:ip-address
|  |  |  +--ro trunk-session-type? ipi-rsvp-types:rsvp_sess_type_t
|  |  |  +--ro session-name?  string
|  +--ro local-address-ipv4* [addr]
|  |  +--ro addr    -> ../state/addr
```

```

| | +--ro state
| |   +--ro if-name?  -> /ipi-interface:interfaces/interface/name
| |   +--ro family?   ipi-rsvp-types:rsvp_addr_family_t
| |   +--ro addr?     inet:ip-address
| | +--ro local-address-ipv6* [addr]
| | +--ro addr        -> ../state/addr
| | +--ro state
| |   +--ro if-name?  -> /ipi-interface:interfaces/interface/name
| |   +--ro family?   ipi-rsvp-types:rsvp_addr_family_t
| |   +--ro addr?     inet:ip-address
| | +--ro nexthop-cache* [prefix]
| | +--ro prefix      -> ../state/prefix
| | +--ro state
| |   +--ro prefix?    cml-data-types:cml_ip_prefix_addr_t
| |   +--ro number-of-sessions? uint32
| |   +--ro ip-addr?   inet:ip-address
| |   +--ro if-name?   -> /ipi-interface:interfaces/interface/name
| +--rw config!
| | +--rw rsvp          ipi-rsvp-types:rsvp_instance_t
| | +--rw enable-explicit-null?      empty
| | +--rw enable-php?                empty
| | +--rw enable-entropy-label-capability? empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--rw disable-refresh-resv-parsing? empty
| | +--rw disable-refresh-path-parsing? empty
| | +--rw disable-loop-detection?     empty
| | +--rw revert-timer?               uint32
| | +--rw session-state-timeout?      uint32
| | +--rw enable-bundle-send?         empty
| | +--rw ingress?                   inet:ipv4-address
| | +--rw on-boot-sample-interval?    uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--rw on-boot-adjust-interval?    uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--rw on-boot-adjust-multiplier?  uint8 {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro state
| | +--ro counters
| | | +--ro in-path-messages?          uint32
| | | +--ro in-path-error-messages?    uint32

```

```
| | | +--ro in-path-tear-messages?          uint32
| | | +--ro in-reservation-fixed-filter-messages?  uint32
| | | +--ro in-reservation-wildcard-filter-messages?  uint32
| | | +--ro in-reservation-shared-explicit-messages?  uint32
| | | +--ro in-reservation-error-messages?          uint32
| | | +--ro in-reservation-tear-messages?          uint32
| | | +--ro in-reservation-conform-messages?        uint32
| | | +--ro in-hello-messages?                    uint32
| | | +--ro in-bundle-messages?                    uint32
| | | +--ro in-acknowledge-messages?               uint32
| | | +--ro in-srefresh-messages?                  uint32
| | | +--ro in-notify-messages?                    uint32
| | | +--ro out-path-messages?                     uint32
| | | +--ro out-path-error-messages?               uint32
| | | +--ro out-path-tear-messages?                uint32
| | | +--ro out-reservation-fixed-filter-messages?  uint32
| | | +--ro out-reservation-wildcard-filter-messages?  uint32
| | | +--ro out-reservatoion-shared-explicit-messages?  uint32
| | | +--ro out-reservation-error-messages?          uint32
| | | +--ro out-reservation-tear-messages?          uint32
| | | +--ro out-reservation-conform-messages?        uint32
| | | +--ro out-hello-messages?                    uint32
| | | +--ro out-bundle-messages?                    uint32
| | | +--ro out-acknowledge-messages?               uint32
| | | +--ro out-srefresh-messages?                  uint32
| | | +--ro out-notify-messages?                    uint32
| | | +--ro total-number-of-sessions?               int32
| | | +--ro active-sessions?                        int32
| | | +--ro total-ingress-sessions?                 int32
| | | +--ro active-ingress-sessions?                 int32
| | | +--ro total-transit-sessions?                 int32
| | | +--ro active-transit-sessions?                 int32
| | | +--ro total-egress-sessions?                  int32
| | | +--ro active-egress-sessions?                  int32
| | +--ro rsvp                                     ipi-rsvp-types:rsvp_instance_t
| | +--ro enable-explicit-null?                     empty
```

```

| | +--ro enable-php?                empty
| | +--ro enable-entropy-label-capability?  empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--ro disable-refresh-resv-parsing?    empty
| | +--ro disable-refresh-path-parsing?    empty
| | +--ro disable-loop-detection?          empty
| | +--ro revert-timer?                   uint32
| | +--ro session-state-timeout?           uint32
| | +--ro enable-bundle-send?              empty
| | +--ro ingress?                        inet:ipv4-address
| | +--ro on-boot-sample-interval?         uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro on-boot-adjust-interval?         uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro on-boot-adjust-multiplier?       uint8 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro rsvp-version?                   uint16
| | +--ro rsvp-state?                     ipi-rsvp-types:rsvp_status_t
| | +--ro refresh-timer?                   uint32
| | +--ro keep-multiplier?                 uint32
| | +--ro preemption-type?                 ipi-rsvp-types:rsvp_preemption_type_t
| | +--ro selected-ingress-ipv4?           inet:ipv4-address
| | +--ro selected-ingress-ipv6?          inet:ipv6-address {feature-list:HAVE_IPV6}?
| +--rw route-refresh
| | +--rw config
| | | +--rw ack-send-timer?              uint16
| | | +--rw enable-message-ack?          empty
| | | +--rw disable-refresh-reduction?    empty
| | | +--rw ack-wait-timeout?             uint32
| | | +--rw refresh-time?                 uint16
| | | +--rw keep-multiplier?              int32
| | +--ro state
| | | +--ro ack-send-timer?              uint16
| | | +--ro enable-message-ack?          empty
| | | +--ro disable-refresh-reduction?    empty
| | | +--ro ack-wait-timeout?             uint32
| | | +--ro refresh-time?                 uint16
| | | +--ro keep-multiplier?              int32
| +--rw fast-reroute {feature-list:HAVE_MPLS_FRR}?
| | +--rw config

```

```

| | | +--rw default-frr-protection?      ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw preemption-type?             ipi-rsvp-types:rsvp_preemp_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw bypass-lsp-addr-query-interval? uint8 {feature-list:HAVE_MPLS_FRR}?
| | | +--rw detour-id?                   ipi-rsvp-types:rsvp_detour_iden_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw detour-allow-primary-upstream-path? empty {feature-list:HAVE_MPLS_FRR}?
| | +--ro state
| | | +--ro default-frr-protection?      ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro preemption-type?             ipi-rsvp-types:rsvp_preemp_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro bypass-lsp-addr-query-interval? uint8 {feature-list:HAVE_MPLS_FRR}?
| | | +--ro detour-id?                   ipi-rsvp-types:rsvp_detour_iden_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro detour-allow-primary-upstream-path? empty {feature-list:HAVE_MPLS_FRR}?
| | +--rw auto-bypass
| |   +--rw config!
| |     | +--rw auto-bypass      empty
| |     | +--rw enable?          empty
| |     | +--rw inactivity-timer? uint32
| |     +--ro state
| |       | +--ro auto-bypass      empty
| |       | +--ro enable?          empty
| |       | +--ro inactivity-timer? uint32
| |     +--rw attributes
| |       +--rw attribute* [type]
| |         +--rw type            -> ../config/type
| |         +--rw config
| |           | +--rw type?        ipi-rsvp-types:rsvp_bypass_attr_type_t
| |           | +--rw protection-capability? ipi-rsvp-types:rsvp_exclude_path_type_t
| |           | +--rw bandwidth?   string
| |           | +--rw setup-priority? uint8
| |           | +--rw hold-priority? uint8
| |           | +--rw hop-limit?   uint16
| |           | +--rw reoptimize?   empty
| |           +--ro state
| |             | +--ro type?        ipi-rsvp-types:rsvp_bypass_attr_type_t
| |             | +--ro protection-capability? ipi-rsvp-types:rsvp_exclude_path_type_t
| |             | +--ro bandwidth?   string
| |             | +--ro setup-priority? uint8

```

```

| | | +--ro hold-priority?      uint8
| | | +--ro hop-limit?         uint16
| | | +--ro reoptimize?        empty
| | +--rw exclude-addresses
| |   +--rw exclude-address* [address]
| |   +--rw address -> ../config/address
| |   +--rw config
| |     | +--rw exclude-type  ipi-rsvp-types:rsvp_exclude_path_type_t
| |     | +--rw address?      inet:ipv4-address
| |     +--ro state
| |       +--ro exclude-type  ipi-rsvp-types:rsvp_exclude_path_type_t
| |       +--ro address?      inet:ipv4-address
| +--rw cspf {feature-list:HAVE_CSPF}?
| | +--rw config
| | | +--rw disable-cspf?      empty
| | | +--rw cspf-lsp-reoptimization-time? uint32
| | +--ro state
| |   +--ro disable-cspf?      empty
| |   +--ro cspf-lsp-reoptimization-time? uint32
| +--rw global
| | +--rw hellos
| | | +--rw config
| | | | +--rw enable-hello-receipt? empty
| | | | +--rw hello-interval?      int32
| | | | +--rw hello-timeout?       int32
| | | +--ro state
| | |   +--ro enable-hello-receipt? empty
| | |   +--ro hello-interval?      int32
| | |   +--ro hello-timeout?       int32
| | +--rw graceful-restart {feature-list:HAVE_RSVP_GRST}?
| |   +--rw config!
| | | +--rw enable-graceful-restart empty
| | | +--rw restart-time?          uint32
| | | +--rw recovery-time?         uint32
| | +--ro state
| |   +--ro enable-graceful-restart empty

```

```

| |   +--ro restart-time?          uint32
| |   +--ro recovery-time?         uint32
| +--rw srlg {feature-list:HAVE_SRLG}?
| | +--rw config
| | | +--rw srlg-disjoint? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| | +--ro state
| |   +--ro srlg-disjoint? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| +--rw diff-serv {feature-list:HAVE_DIFFSERV}?
| | +--rw config
| | +--ro state
| +--rw neighbors
|   +--rw neighbor* [address]
|   | +--rw address  -> ../config/address
|   | +--rw config
|   | | +--rw address?  inet:ip-address
|   | +--ro state
|   |   +--ro address?  inet:ip-address
|   +--ro protocol-neighbor* [neighbor-ip-address]
|     +--ro neighbor-ip-address  -> ../state/neighbor-ip-address
|     +--ro state
|       +--ro neighbor-ip-address?  inet:ip-address
|       +--ro session-count?        uint32
|       +--ro refresh-reduction?     ipi-rsvp-types:rsvp_neighbor_refresh_reduction_status_t
|       +--ro upstream-lsp-count?    uint32
|       +--ro downstream-lsp-count?  uint32
|       +--ro neighbor-state?        ipi-rsvp-types:rsvp_neighbor_hello_state_t
|       +--ro srefresh-remaining-time?  uint32
|       +--ro neighbor-type?         ipi-rsvp-types:rsvp_neighbor_type_t
|       +--ro max-acknowledge-packet?  uint16
|       +--ro used-acknowledge-packet?  uint16
|       +--ro max-bundle-packet?      uint16
|       +--ro used-bundle-packet?     uint16
|       +--ro lsp-id?                uint16
|       +--ro session-frr-type?       ipi-rsvp-types:rsvp_session_frr_type_t
|       +--ro ingress?               inet:ip-address
|       +--ro egress?                inet:ip-address

```

```

|   +--ro trunk-session-type?      ipi-rsvp-types:rsvp_sess_type_t
|   +--ro session-name?           string
|   +--ro trunk-id?               uint32
|   +--ro direction?             string
|   +--ro graceful-restart-state?  ipi-rsvp-types:rsvp_graceful_restart_status_t {feature-
list:HAVE_RSVP_GRST}?
|   +--ro graceful-restart-set-recovery? ipi-rsvp-types:rsvp_graceful_restart_recovery_status_t {feature-
list:HAVE_RSVP_GRST}?
|   +--ro restart-time?           uint32 {feature-list:HAVE_RSVP_GRST}?
|   +--ro recovery-time?         uint32 {feature-list:HAVE_RSVP_GRST}?
|   +--ro remaining-restart-time? uint32 {feature-list:HAVE_RSVP_GRST}?
|   +--ro remaining-recovery-time? uint32 {feature-list:HAVE_RSVP_GRST}?
+--rw rsvp-paths {feature-list:NOT_HAVE_MPLS_TUNNEL}?
| +--rw rsvp-path* [path-name]
|   +--rw path-name      -> ../config/path-name
|   +--rw config
|     | +--rw path-name?  string
|     | +--rw path-type   ipi-rsvp-types:rsvp_path_type_t
|     | +--rw description? cml-data-types:cml_line_t
|     +--ro state
|       | +--ro path-name?  string
|       | +--ro path-type   ipi-rsvp-types:rsvp_path_type_t
|       | +--ro description? cml-data-types:cml_line_t
|       | +--ro path-identifier? uint16
|       | +--ro hop-count?   uint16
|       +--rw explicit-route-object
|         +--rw mpls-hops
|           | +--rw mpls-hop* [hop-address hop-type]
|           |   +--rw hop-address  -> ../config/hop-address
|           |   +--rw hop-type    -> ../config/hop-type
|           |   +--rw config
|           |     | +--rw hop-address? inet:ipv4-address
|           |     | +--rw hop-type?   ipi-rsvp-types:rsvp_path_status_t
|           |     +--ro state
|           |       +--ro hop-address? inet:ipv4-address
|           |       +--ro hop-type?   ipi-rsvp-types:rsvp_path_status_t
|           +--rw gmpls-strict-hops

```

```
+--rw multipaths {feature-list:HAVE_RSVP_MULTIPATH}?
| +--rw multipath* [multipath-name]
|   +--rw multipath-name -> ../config/multipath-name
|   +--rw config
|     | +--rw description?    cml-data-types:cml_line_t
|     | +--rw destination?    inet:ipv4-address
|     | +--rw multipath-name? string
|     +--ro state
|       | +--ro description?    cml-data-types:cml_line_t
|       | +--ro destination?    inet:ipv4-address
|       | +--ro multipath-name? string
|       | +--ro multipath-identifier? uint16
|       | +--ro member-trunk-count? uint16
|       +--ro member-trunks
|         +--ro member-trunk* [trunk-name]
|           +--ro trunk-name -> ../state/trunk-name
|           +--ro state
|             +--ro trunk-name?    string
|             +--ro trunk-identifier? uint32
|             +--ro trunk-status?  ipi-rsvp-types:rsvp_trunk_status_t
+--rw trunks
| +--rw bypass-trunks
| | +--rw bypass-trunk* [bypass-name] {feature-list:HAVE_MPLS_FRR}?
| |   +--rw bypass-name -> ../config/bypass-name
| |   +--rw config
| |     | +--rw ingress?        inet:ipv4-address
| |     | +--rw egress?         inet:ipv4-address
| |     | +--rw ext-tunnel-id?   inet:ipv4-address
| |     | +--rw update-type?     ipi-rsvp-types:rsvp_update_type_t
| |     | +--rw description?     cml-data-types:cml_line_t
| |     | +--rw enable-reoptimize? empty
| |     | +--rw shutdown?        empty
| |     | +--rw bypass-name?     string
| |     | +--rw backup-bandwidth-type? ipi-rsvp-types:rsvp_backup_bandwidth_type
| |     +--ro state
| |       | +--ro ingress?        inet:ipv4-address
```



```

| | | +--ro egress?          inet:ipv4-address
| | | +--ro ext-tunnel-id?   inet:ipv4-address
| | | +--ro update-type?     ipi-rsvp-types:rsvp_update_type_t
| | | +--ro description?     cml-data-types:cml_line_t
| | | +--ro enable-reoptimize? empty
| | | +--ro shutdown?        empty
| | | +--ro bypass-name?     string
| | | +--ro backup-bandwidth-type? ipi-rsvp-types:rsvp_backup_bandwidth_type
| | +--rw session
| |   +--rw config
| |     | +--rw traffic-type?   ipi-rsvp-types:rsvp_traffic_type_t
| |     | +--rw retry-count?    uint16
| |     | +--rw retry-interval? uint16
| |     | +--rw disable-route-record? empty
| |     | +--rw enable-reuse-route-record? empty
| |     | +--rw cspf-retry-count? uint16 {feature-list:HAVE_CSPF}?
| |     | +--rw cspf-retry-interval? uint16 {feature-list:HAVE_CSPF}?
| |     +--ro state
| |       | +--ro traffic-type?   ipi-rsvp-types:rsvp_traffic_type_t
| |       | +--ro retry-count?    uint16
| |       | +--ro retry-interval? uint16
| |       | +--ro disable-route-record? empty
| |       | +--ro enable-reuse-route-record? empty
| |       | +--ro cspf-retry-count? uint16 {feature-list:HAVE_CSPF}?
| |       | +--ro cspf-retry-interval? uint16 {feature-list:HAVE_CSPF}?
| |       +--rw exclude-path {feature-list:HAVE_MPLS_FRR}?
| |         | +--rw config!
| |         | | +--rw exclude-type ipi-rsvp-types:rsvp_exclude_path_type_t
| |         | | +--rw exclude-addr inet:ipv4-address
| |         | +--ro state
| |         | +--ro exclude-type ipi-rsvp-types:rsvp_exclude_path_type_t
| |         | +--ro exclude-addr inet:ipv4-address
| |         +--rw path-state-block
| |           | +--rw config
| |           | | +--rw path-name? string
| |           | +--ro state

```

```

| | | | +--ro path-name? string
| | | +--rw session-attributes
| | |   +--rw config
| | |     | +--rw hold-priority? uint8
| | |     | +--rw setup-priority? uint8
| | |     | +--rw enable-label-record? empty
| | |     | +--rw hop-limit? uint16
| | |     | +--rw filter-type? ipi-rsvp-types:rsvp_filter_type_t
| | |     | +--rw bandwidth? string
| | |   +--ro state
| | |     +--ro hold-priority? uint8
| | |     +--ro setup-priority? uint8
| | |     +--ro enable-label-record? empty
| | |     +--ro hop-limit? uint16
| | |     +--ro filter-type? ipi-rsvp-types:rsvp_filter_type_t
| | |     +--ro bandwidth? string
| |   +--rw diff-serv-info {feature-list:HAVE_MPLS_FRR,feature-list:HAVE_DIFFSERV}?
| |     +--rw config
| |     +--ro state
| |     +--rw dscp-exp-maps
| |       +--rw dscp-exp-map* [dscp-exp-map-exp-val]
| |         +--rw dscp-exp-map-exp-val -> ../config/dscp-exp-map-exp-val
| |         +--rw config
| |           | +--rw dscp-exp-map-exp-val? int32
| |           | +--rw dscp-exp-map-class-name string
| |           +--ro state
| |             +--ro dscp-exp-map-exp-val? int32
| |             +--ro dscp-exp-map-class-name string
| +--rw ingress-trunks
| | +--rw ingress-trunk* [trunk-name]
| |   +--rw trunk-name -> ../config/trunk-name
| |   +--rw config
| |     | +--rw ingress? inet:ipv4-address
| |     | +--rw egress? inet:ipv4-address
| |     | +--rw ext-tunnel-id? inet:ipv4-address
| |     | +--rw update-type? ipi-rsvp-types:rsvp_update_type_t

```

```

| | | +--rw description?      cml-data-types:cml_line_t
| | | +--rw enable-reoptimize? empty
| | | +--rw shutdown?         empty
| | | +--rw multipath-group?   -> /rsvp-te/multipaths/multipath/config/multipath-name {feature-
list:HAVE_RSVP_MULTIPATH}?
| | | +--rw trunk-name?       string
| | | +--rw trunk-family      ipi-rsvp-types:rsvp_trunk_family_t
| | | +--rw absolute-metric?   uint32
| | | +--rw relative-metric?   int32
| | | +--rw revert-timer?      uint32
| | | +--rw auto-bandwidth?    -> /rsvp-te/rsvp-auto-bandwidths/rsvp-auto-bandwidth/config/profile-name {feature-
list:HAVE_AUTO_BANDWIDTH}?
| | | +--rw ldp-tunneling?     empty {feature-list:HAVE_LDP_TUNNELING}?
| | | +--rw trunk-color?       uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| | | +--rw bsid-value?        uint32
| | +--ro state
| | | +--ro ingress?           inet:ipv4-address
| | | +--ro egress?            inet:ipv4-address
| | | +--ro ext-tunnel-id?      inet:ipv4-address
| | | +--ro update-type?        ipi-rsvp-types:rsvp_update_type_t
| | | +--ro description?        cml-data-types:cml_line_t
| | | +--ro enable-reoptimize? empty
| | | +--ro shutdown?          empty
| | | +--ro multipath-group?    -> /rsvp-te/multipaths/multipath/config/multipath-name {feature-
list:HAVE_RSVP_MULTIPATH}?
| | | +--ro trunk-name?        string
| | | +--ro trunk-family        ipi-rsvp-types:rsvp_trunk_family_t
| | | +--ro absolute-metric?     uint32
| | | +--ro relative-metric?     int32
| | | +--ro revert-timer?        uint32
| | | +--ro auto-bandwidth?      -> /rsvp-te/rsvp-auto-bandwidths/rsvp-auto-bandwidth/config/profile-name {feature-
list:HAVE_AUTO_BANDWIDTH}?
| | | +--ro ldp-tunneling?       empty {feature-list:HAVE_LDP_TUNNELING}?
| | | +--ro trunk-color?         uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| | | +--ro bsid-value?          uint32
| | +--rw path-computation-element {feature-list:HAVE_PCEP_RSVP}?
| | | +--rw config
| | | | +--rw path-option-dynamic? cml-data-types:cml_pcep_path_dyn_t {feature-list:HAVE_PCEP_RSVP}?

```

```

| | | | +--rw pce-entity-identifier? uint8 {feature-list:HAVE_PCEP_RSVP}?
| | | | +--rw pce-state-report?      empty {feature-list:HAVE_PCEP_RSVP}?
| | | | +--rw pce-lsp-delegate?      empty {feature-list:HAVE_PCEP_RSVP}?
| | | +--ro state
| | |   +--ro path-option-dynamic?   cml-data-types:cml_pcep_path_dyn_t {feature-list:HAVE_PCEP_RSVP}?
| | |   +--ro pce-entity-identifier? uint8 {feature-list:HAVE_PCEP_RSVP}?
| | |   +--ro pce-state-report?      empty {feature-list:HAVE_PCEP_RSVP}?
| | |   +--ro pce-lsp-delegate?      empty {feature-list:HAVE_PCEP_RSVP}?
| | +--rw mapped-ip-routes
| | | +--rw mapped-ip-route* [address]
| | |   +--rw address   -> ../config/address
| | |   +--rw config
| | |     | +--rw address? cml-data-types:cml_ipv4_prefix_t
| | |     | +--ro state
| | |     |   +--ro address? cml-data-types:cml_ipv4_prefix_t
| | +--rw secondary-priorities
| | | +--rw secondary-priority* [priority-value]
| | |   +--rw priority-value -> ../config/priority-value
| | |   +--rw config
| | |     | +--rw priority-value?          int32
| | |     | +--rw priority-path?          string
| | |     | +--rw secondary-priority-srlg-disjoint? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-
list:HAVE_SRLG}?
| | |     | +--rw hold-priority?          uint8
| | |     | +--rw setup-priority?         uint8
| | |     | +--rw enable-label-record?    empty
| | |     | +--rw hop-limit?             uint16
| | |     | +--rw bandwidth?             string
| | |     | +--ro state
| | |     |   +--ro priority-value?       int32
| | |     |   +--ro priority-path?       string
| | |     |   +--ro secondary-priority-srlg-disjoint? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-
list:HAVE_SRLG}?
| | |     |   +--ro hold-priority?       uint8
| | |     |   +--ro setup-priority?      uint8
| | |     |   +--ro enable-label-record? empty
| | |     |   +--ro hop-limit?          uint16

```

```
| | |   +--ro bandwidth?           string
| | +--rw sessions
| |   +--rw session* [trunk-session-type]
| |     +--rw trunk-session-type  -> ../config/trunk-session-type
| |     +--rw config
| |       | +--rw trunk-session-type?    ipi-rsvp-types:rsvp_sess_type_t
| |       | +--rw disable-cspf?          empty {feature-list:HAVE_CSPF}?
| |       | +--rw disable-affinity?      empty {feature-list:HAVE_TE}?
| |       | +--rw traffic-type?          ipi-rsvp-types:rsvp_traffic_type_t
| |       | +--rw retry-count?           uint16
| |       | +--rw retry-interval?        uint16
| |       | +--rw disable-route-record?   empty
| |       | +--rw enable-reuse-route-record? empty
| |       | +--rw cspf-retry-count?       uint16 {feature-list:HAVE_CSPF}?
| |       | +--rw cspf-retry-interval?    uint16 {feature-list:HAVE_CSPF}?
| |       | +--rw srlg-disjoint-secondary? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| |     +--ro state
| |       | +--ro trunk-session-type?    ipi-rsvp-types:rsvp_sess_type_t
| |       | +--ro disable-cspf?          empty {feature-list:HAVE_CSPF}?
| |       | +--ro disable-affinity?      empty {feature-list:HAVE_TE}?
| |       | +--ro traffic-type?          ipi-rsvp-types:rsvp_traffic_type_t
| |       | +--ro retry-count?           uint16
| |       | +--ro retry-interval?        uint16
| |       | +--ro disable-route-record?   empty
| |       | +--ro enable-reuse-route-record? empty
| |       | +--ro cspf-retry-count?       uint16 {feature-list:HAVE_CSPF}?
| |       | +--ro cspf-retry-interval?    uint16 {feature-list:HAVE_CSPF}?
| |       | +--ro srlg-disjoint-secondary? ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| |     +--rw fast-reroute {feature-list:HAVE_MPLS_FRR}?
| |       | +--rw config
| |       | | +--rw protection?          ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| |       | | +--rw enable-node-protection? empty {feature-list:HAVE_MPLS_FRR}?
| |       | | +--rw frr-hold-priority?    uint32
| |       | | +--rw frr-setup-priority?   uint32
| |       | | +--rw frr-hop-limit?        uint32
| |       | | +--rw fast-reroute-bandwidth? string
```

```

| | | +--ro state
| | | | +--ro protection?      ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| | | | +--ro enable-node-protection? empty {feature-list:HAVE_MPLS_FRR}?
| | | | +--ro frr-hold-priority? uint32
| | | | +--ro frr-setup-priority? uint32
| | | | +--ro frr-hop-limit?    uint32
| | | | +--ro fast-reroute-bandwidth? string
| | | +--rw frr-admin-groups
| | | | +--rw frr-admin-group* [admin-group-name] {feature-list:HAVE_MPLS_FRR}?
| | | |   +--rw admin-group-name  -> ../config/admin-group-name
| | | |   +--rw config
| | | |     | +--rw admin-group-name? string
| | | |     | +--rw admin-group-type? ipi-rsvp-types:rsvp_frr_admin_type_t
| | | |     +--ro state
| | | |       +--ro admin-group-name? string
| | | |       +--ro admin-group-type? ipi-rsvp-types:rsvp_frr_admin_type_t
| | | +--rw admin-groups
| | | | +--rw admin-group* [name] {feature-list:HAVE_TE}?
| | | |   +--rw name      -> ../config/name
| | | |   +--rw config
| | | |     | +--rw name? string
| | | |     | +--rw type? ipi-rsvp-types:rsvp_admin_type_t
| | | |     +--ro state
| | | |       +--ro name? string
| | | |       +--ro type? ipi-rsvp-types:rsvp_admin_type_t
| | | +--rw path-state-block
| | | | +--rw config
| | | |   | +--rw path-name? -> /rsvp-te/rsvp-paths/rsvp-path/config/path-name
| | | |   +--ro state
| | | |     | +--ro path-name? -> /rsvp-te/rsvp-paths/rsvp-path/config/path-name
| | | |   +--rw session-attributes
| | | |     +--rw config
| | | |       | +--rw hold-priority?    uint8
| | | |       | +--rw setup-priority?   uint8
| | | |       | +--rw enable-label-record? empty
| | | |       | +--rw hop-limit?       uint16

```

```

| | | | +--rw filter-type?      ipi-rsvp-types:rsvp_filter_type_t
| | | | +--rw bandwidth?       string
| | | | +--ro state
| | | |   +--ro hold-priority?   uint8
| | | |   +--ro setup-priority?  uint8
| | | |   +--ro enable-label-record? empty
| | | |   +--ro hop-limit?      uint16
| | | |   +--ro filter-type?     ipi-rsvp-types:rsvp_filter_type_t
| | | |   +--ro bandwidth?      string
| | | +--rw diff-serv-info {feature-list:HAVE_DIFFSERV}?
| | |   +--rw config
| | |   +--ro state
| | |   +--rw dscp-exp-maps
| | |   | +--rw dscp-exp-map* [dscp-exp-map-exp-val]
| | |   |   +--rw dscp-exp-map-exp-val -> ../config/dscp-exp-map-exp-val
| | |   |   +--rw config
| | |   |   | +--rw dscp-exp-map-exp-val? int32
| | |   |   | +--rw dscp-exp-map-class-name string
| | |   |   +--ro state
| | |   |   +--ro dscp-exp-map-exp-val? int32
| | |   |   +--ro dscp-exp-map-class-name string
| | |   +--rw elsp-class
| | |   +--rw config
| | |   | +--rw elsp-signal?      empty
| | |   | +--rw elsp-signal-class1? string
| | |   | +--rw elsp-signal-class2? string
| | |   | +--rw elsp-signal-class3? string
| | |   | +--rw elsp-signal-class4? string
| | |   | +--rw elsp-signal-class5? string
| | |   | +--rw elsp-signal-class6? string
| | |   | +--rw elsp-signal-class7? string
| | |   +--ro state
| | |   +--ro elsp-signal?      empty
| | |   +--ro elsp-signal-class1? string
| | |   +--ro elsp-signal-class2? string
| | |   +--ro elsp-signal-class3? string

```

```

| |      +--ro elsp-signal-class4?  string
| |      +--ro elsp-signal-class5?  string
| |      +--ro elsp-signal-class6?  string
| |      +--ro elsp-signal-class7?  string
| +--ro trunk* [trunk-id extended-tunnel-id egress]
|   +--ro trunk-id      -> ../state/trunk-id
|   +--ro extended-tunnel-id  -> ../state/extended-tunnel-id
|   +--ro egress        -> ../state/egress
|   +--ro sessions
|   | +--ro session* [session-name]
|   |   +--ro session-name  -> ../state/session-name
|   |   +--ro state
|   |   | +--ro received-explicit-route-object* [link-address]
|   |   | | +--ro link-address  -> ../state/link-address
|   |   | | +--ro state
|   |   | | +--ro link-address?  inet:ip-address
|   |   | | +--ro link-type?     ipi-rsvp-types:rsvp_path_status_t
|   |   | +--ro explicit-route-object* [link-address]
|   |   | | +--ro link-address  -> ../state/link-address
|   |   | | +--ro state
|   |   | | +--ro link-address?  inet:ip-address
|   |   | | +--ro link-type?     ipi-rsvp-types:rsvp_path_status_t
|   |   +--ro constrained-shortest-path
|   |   | +--ro state
|   |   | | +--ro cspf-state?      ipi-rsvp-types:rsvp_status_t
|   |   | | +--ro lsp-reoptimization-state? ipi-rsvp-types:rsvp_status_t
|   |   | | +--ro lsp-reoptimization-timer? uint32
|   |   | | +--ro cspf-client?      ipi-rsvp-types:rsvp_cspf_client_t
|   |   +--ro fast-reroute {feature-list:HAVE_MPLS_FRR}?
|   |   | +--ro state
|   |   | | +--ro lsp-protection?    ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
|   |   | | +--ro bypass-trunk-name?  string {feature-list:HAVE_MPLS_FRR}?
|   |   | | +--ro merge-point-address? inet:ipv4-address {feature-list:HAVE_MPLS_FRR}?
|   |   | | +--ro merge-point-label?  uint32 {feature-list:HAVE_MPLS_FRR}?
|   |   +--ro upstream-downstream-state
|   |   | +--ro state

```



```

| | | +--ro upstream-ip-address?    inet:ip-address
| | | +--ro upstream-interface-name? string
| | | +--ro downstream-ip-address?  inet:ip-address
| | | +--ro downstream-interface-name? string
| | +--ro traffic-flow-specification
| | | +--ro state
| | | +--ro traffic-specification-rate? uint32
| | | +--ro filter-specification-rate? uint32
| | +--ro session-priority
| | | +--ro state
| | | +--ro setup-priority? uint8
| | | +--ro hold-priority? uint8
| | | +--ro hop-limit? uint8
| | | +--ro bandwidth? string
| | +--ro path-refresh-timers
| | | +--ro state
| | | +--ro path-refresh-time? uint32
| | | +--ro remaining-path-refresh-time? uint32
| | | +--ro path-lifetime? uint32
| | | +--ro remaining-path-lifetime? uint32
| | +--ro reserve-refresh-timers
| | | +--ro state
| | | +--ro reserve-refresh-time? uint32
| | | +--ro remaining-reserve-refresh-time? uint32
| | | +--ro reserve-lifetime? uint32
| | | +--ro remaining-reserve-lifetime? uint32
| | +--ro retry-timers
| | | +--ro state
| | | +--ro remaining-retry-time? uint32
| | | +--ro next-retry-time? uint32
| | +--ro upstream-route-record-object
| | | +--ro state
| | | +--ro address* inet:ip-address
| | +--ro downstream-route-record-object
| | | +--ro state
| | | +--ro address* inet:ip-address

```

```

| |   +--ro session-name?          string
| |   +--ro lsp-id?                uint16
| |   +--ro session-frr-type?      ipi-rsvp-types:rsvp_session_frr_type_t
| |   +--ro ingress?               inet:ip-address
| |   +--ro trunk-session-type?    ipi-rsvp-types:rsvp_sess_type_t
| |   +--ro session-role?          ipi-rsvp-types:rsvp_session_role_t
| |   +--ro is-pseudo-primary?     ipi-rsvp-types:rsvp_yes_no_t
| |   +--ro lsp-state?             string
| |   +--ro fsm-state?             string
| |   +--ro transit-downstream-fsm-state?  string
| |   +--ro establishment-time?    cml-data-types:cml_line_t
| |   +--ro revert-hold-timer?     ipi-rsvp-types:rsvp_yes_no_t
| |   +--ro remaining-revert-time? uint32
| |   +--ro session-filter-style?  ipi-rsvp-types:rsvp_filter_state_type_t
| |   +--ro in-label?              uint32
| |   +--ro out-label?             uint32
| |   +--ro bypass-out-label?      uint32
| |   +--ro bypass-out-interface?  string
| |   +--ro gmpls-label-type?      ipi-rsvp-types:rsvp_gmpls_label_type_t
| |   +--ro qos-traffic-type?      ipi-rsvp-types:rsvp_traffic_type_state_t
| |   +--ro minimum-path-mtu?      uint32
| +--ro state
| |   +--ro trunk-id?              uint32
| |   +--ro extended-tunnel-id?    inet:ip-address
| |   +--ro egress?                inet:ip-address
| |   +--ro trunk-name?            string
| |   +--ro multipath-group-name?  string {feature-list:HAVE_RSVP_MULTIPATH}?
| |   +--ro multipath-group-identifier? uint16 {feature-list:HAVE_RSVP_MULTIPATH}?
| +--ro auto-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
|   +--ro state
|     +--ro last-bandwidth?        string
|     +--ro requested-bandwidth?   string
|     +--ro signaled-bandwidth?    string
|     +--ro current-bandwidth?     string
|     +--ro highest-watermark-bandwidth? string
|     +--ro last-adjusted-bandwidth? string

```

```

|   +--ro total-bandwidth-adjustments?  uint32
|   +--ro successful-adjustments?      uint32
|   +--ro failed-adjustments?         uint32
|   +--ro minimum-average-bandwidth?   string
|   +--ro maximum-average-bandwidth?   string
|   +--ro overflow-sample-count?       uint16
|   +--ro underflow-sample-count?      uint16
|   +--ro maxbw-exceed-sample-count?   uint16
|   +--ro teardown-count?              uint32
|   +--ro sample-request-due-time?     uint32
|   +--ro next-adjustment-due-time?    uint32
|   +--ro last-bandwidth-request-time?  cml-data-types:cml_line_t
|   +--ro last-bandwidth-signal-time?  cml-data-types:cml_line_t
|   +--ro last-adjustment-time?        cml-data-types:cml_line_t
|   +--ro highest-watermark-time?      cml-data-types:cml_line_t
|   +--ro total-force-adjustments?     uint32
|   +--ro successful-force-adjustments? uint32
|   +--ro failed-force-adjustments?    uint32
+--rw rsvp-auto-bandwidths {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--rw rsvp-auto-bandwidth* [profile-name]
|   +--rw profile-name  -> ../config/profile-name
|   +--rw config
|     | +--rw profile-name?          string
|     | +--rw sample-interval?       uint16
|     | +--rw adjust-interval?       uint16
|     | +--rw minimum-bandwidth?     string
|     | +--rw maximum-bandwidth?     string
|     | +--rw overflow-threshold-percent?  uint8
|     | +--rw underflow-threshold-percent?  uint8
|     | +--rw overflow-threshold-bandwidth? string
|     | +--rw underflow-threshold-bandwidth? string
|     | +--rw underflow-threshold-activate-bandwidth? string
|     | +--rw overflow-threshold-activate-bandwidth? string
|     | +--rw overflow-limit?        uint16
|     | +--rw underflow-limit?       uint16
|     | +--rw initial-bandwidth?     string

```

```

| | +--rw maximum-bandwidth-exceed-limit?      uint16
| | +--rw maximum-bandwidth-exceed-action?      ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
| | +--rw resignal-failure-action?              ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
| | +--rw sync-bandwidth?                       empty
| | +--rw monitor-bandwidth?                    empty
| | +--rw minimum-samples-percent?              uint8
| | +--rw minimum-samples-absolute?             uint16
| +--ro state
|   +--ro profile-name?                         string
|   +--ro sample-interval?                      uint16
|   +--ro adjust-interval?                      uint16
|   +--ro minimum-bandwidth?                    string
|   +--ro maximum-bandwidth?                    string
|   +--ro overflow-threshold-percent?            uint8
|   +--ro underflow-threshold-percent?           uint8
|   +--ro overflow-threshold-bandwidth?          string
|   +--ro underflow-threshold-bandwidth?         string
|   +--ro underflow-threshold-activate-bandwidth? string
|   +--ro overflow-threshold-activate-bandwidth? string
|   +--ro overflow-limit?                       uint16
|   +--ro underflow-limit?                      uint16
|   +--ro initial-bandwidth?                    string
|   +--ro maximum-bandwidth-exceed-limit?        uint16
|   +--ro maximum-bandwidth-exceed-action?        ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|   +--ro resignal-failure-action?                ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|   +--ro sync-bandwidth?                        empty
|   +--ro monitor-bandwidth?                     empty
|   +--ro minimum-samples-percent?                uint8
|   +--ro minimum-samples-absolute?               uint16
+--rw interfaces
  +--rw interface* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?      -> /ipi-interface:interfaces/interface/name
      | +--rw enable-rsvp?      empty
      | +--rw enable-iana-hello-config? empty

```

```

+--ro state
| +--ro name?          -> /ipi-interface:interfaces/interface/name
| +--ro enable-rsvp?    empty
| +--ro enable-iana-hello-config?  empty
| +--ro selected-ipv4-address?  inet:ipv4-address
| +--ro selected-ipv6-address?  inet:ipv6-address
| +--ro interface-type?    ipi-rsvp-types:rsvp_interface_type_t
| +--ro interface-index?   uint32
| +--ro rsvp-status?       ipi-rsvp-types:rsvp_status_t
| +--ro administrative-group-name*  string
| +--ro bundle-buffer-size?  uint16
| +--ro epoch?             uint32
+--rw refresh-reduction
| +--rw config
| | +--rw enable-message-ack?    empty
| | +--rw disable-refresh-reduction?  empty
| | +--rw ack-wait-timeout?       uint32
| | +--rw refresh-time?           uint16
| | +--rw keep-multiplier?        int32
| +--ro state
|   +--ro enable-message-ack?    empty
|   +--ro disable-refresh-reduction?  empty
|   +--ro ack-wait-timeout?       uint32
|   +--ro refresh-time?           uint16
|   +--ro keep-multiplier?        int32
+--rw hellos
  +--rw config
  | +--rw enable-hello-receipt?  empty
  | +--rw hello-interval?        int32
  | +--rw hello-timeout?         int32
  +--ro state
    +--ro enable-hello-receipt?  empty
    +--ro hello-interval?        int32
    +--ro hello-timeout?         int32

```

rpcs:

```
+---x clear-rsvp-session {feature-list:HAVE_RSVPD}?
+---x clear-rsvp-trunk {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x clear-rsvp-primary-trunk {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x clear-rsvp-secondary-trunk {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x clear-rsvp-ingress-trunk {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x clear-rsvp-non-ingress-trunk {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x rsvp-trunk-force-reoptimize-on {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w session-name  string
+---x rsvp-trunk-force-switchover-secondary {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
|   +---w action      ipi-rsvp-types:rsvp_force_secondary_t
+---x rsvp-trunk-restart {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w trunk-name  string
+---x rsvp-session-reset {feature-list:HAVE_RSVPD}?
| +---w input
|   +---w tunnel-id   uint32
|   +---w lsp-id      uint32
|   +---w ingress     inet:ipv4-address
|   +---w egress       inet:ipv4-address
+---x rsvp-trunk-force-auto-bandwidth-adjustment {feature-list:HAVE_AUTO_BANDWIDTH}?
| +---w input
|   +---w trunk-name          string
|   +---w force-auto-bandwidth-adjustment  boolean
```

```

|   +---w bandwidth          string
+---x rsvp-clear-auto-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
|   +---w input
|   +---w autobw-profile    string
+---x clear-rsvp-trunk-auto-bandwidth-statistics {feature-list:HAVE_AUTO_BANDWIDTH}?
|   +---w input
|   +---w trunk-name      string
+---x clear-rsvp-neighbor {feature-list:HAVE_RSVPD}?
|   +---w input
|   +---w address         inet:ip-address
+---x clear-rsvp-statistics {feature-list:HAVE_RSVPD}?
+---x rsvp-snmp-restart {feature-list:HAVE_SNMP}?
+---x rsvp-terminal-debug-on {feature-list:HAVE_RSVPD}?
|   +---w input
|   +---w terminal-debug-options ipi-rsvp-types:rsvp_debug_t
+---x rsvp-terminal-debug-off {feature-list:HAVE_RSVPD}?
|   +---w input
|   +---w terminal-debug-options ipi-rsvp-types:rsvp_debug_t
+---x restart-rsvp-graceful {feature-list:HAVE_RSVP_GRST}?

```

notifications:

```

+---n rsvp-session-up
|   +--ro severity?          cml-data-types:cml_notif_severity_t
|   +--ro eventClass?       cml-data-types:cml_notif_class_t
|   +--ro session-name?     string
|   +--ro trunk-id?         uint32
|   +--ro extended-tunnel-id? inet:ip-address
|   +--ro egress?           inet:ip-address
|   +--ro lsp-id?           uint16
|   +--ro ingress?          inet:ip-address
|   +--ro trunk-session-type? ipi-rsvp-types:rsvp_sess_type_t
+---n rsvp-session-down
|   +--ro severity?          cml-data-types:cml_notif_severity_t
|   +--ro eventClass?       cml-data-types:cml_notif_class_t
|   +--ro session-name?     string
|   +--ro trunk-id?         uint32

```

```
| +--ro extended-tunnel-id?  inet:ip-address
| +--ro egress?              inet:ip-address
| +--ro lsp-id?              uint16
| +--ro ingress?             inet:ip-address
| +--ro trunk-session-type?  ipi-rsvp-types:rsvp_sess_type_t
+---n rsvp-session-force-switchover
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro session-name?        string
| +--ro trunk-id?            uint32
| +--ro extended-tunnel-id?  inet:ip-address
| +--ro egress?              inet:ip-address
| +--ro lsp-id?              uint16
| +--ro ingress?             inet:ip-address
| +--ro trunk-session-type?  ipi-rsvp-types:rsvp_sess_type_t
+---n rsvp-tunnel-reoptimized
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro session-name?        string
| +--ro trunk-id?            uint32
| +--ro extended-tunnel-id?  inet:ip-address
| +--ro egress?              inet:ip-address
| +--ro lsp-id?              uint16
| +--ro ingress?             inet:ip-address
| +--ro trunk-session-type?  ipi-rsvp-types:rsvp_sess_type_t
+---n rsvp-auto-bw-subceed-minimum-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro message?             string
+---n rsvp-auto-bw-exceed-maximum-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro message?             string
+---n rsvp-auto-bw-adjust-time-expiry {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?            cml-data-types:cml_notif_severity_t
| +--ro eventClass?          cml-data-types:cml_notif_class_t
```

```

| +--ro message?    string
+---n rsvp-auto-bw-overflow {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n rsvp-auto-bw-underflow {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n rsvp-auto-bw-exceed-limit {feature-list:HAVE_AUTO_BANDWIDTH}?
| +--ro severity?   cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n rsvp-auto-bw-teardown {feature-list:HAVE_AUTO_BANDWIDTH}?
  +--ro severity?   cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro message?    string

```

ipi-sat

```

+--rw sat
  +--rw rate-profiles
    | +--rw rate-profile* [rate-pname]
    |   +--rw rate-pname          -> ../config/rate-pname
    |   +--rw config
    |     | +--rw rate-pname?  string
    |     | +--rw two-way?     empty
    |     | +--rw color-aware? empty
    |     | +--rw load-step?   uint8
    |     | +--rw mode?        ipi-sat-types:sat_mode_t
    |     +--ro state
    |       | +--ro rate-pname?  string
    |       | +--ro two-way?     empty
    |       | +--ro color-aware? empty
    |       | +--ro load-step?   uint8

```

```

| | +--ro mode?      ipi-sat-types:sat_mode_t
| +--rw committed-information-rate
| | +--rw config!
| | | +--rw cir      uint64
| | | +--rw cir-unit  ipi-sat-types:sat_rate_unit_t
| | | +--rw cir-cos   uint8
| | | +--rw cir-dei   uint8
| | +--ro state
| |   +--ro cir      uint64
| |   +--ro cir-unit  ipi-sat-types:sat_rate_unit_t
| |   +--ro cir-cos   uint8
| |   +--ro cir-dei   uint8
| +--rw excess-information-rate
| | +--rw config!
| | | +--rw eir      uint64
| | | +--rw eir-unit  ipi-sat-types:sat_rate_unit_t
| | | +--rw eir-cos   uint8
| | | +--rw eir-dei   uint8
| | +--ro state
| |   +--ro eir      uint64
| |   +--ro eir-unit  ipi-sat-types:sat_rate_unit_t
| |   +--ro eir-cos   uint8
| |   +--ro eir-dei   uint8
| +--rw delay-bins
|   +--rw config!
|   | +--rw min-rate  ipi-sat-types:sat_delay_rate_t
|   | +--rw min-range  uint16
|   | +--rw max-rate  ipi-sat-types:sat_delay_rate_t
|   | +--rw max-range  uint16
|   +--ro state
|     +--ro min-rate  ipi-sat-types:sat_delay_rate_t
|     +--ro min-range  uint16
|     +--ro max-rate  ipi-sat-types:sat_delay_rate_t
|     +--ro max-range  uint16
+--rw acceptance-profiles
| +--rw acceptance-profile* [acceptance-pname]

```

```

|  +--rw acceptance-pname  -> ../config/acceptance-pname
|  +--rw config
|  |  +--rw acceptance-pname?      string
|  |  +--rw cir-frame-loss-ratio?   string
|  |  +--rw cir-frame-loss-ratio-policing?  string
|  |  +--rw cir-frame-delay-variation?  ipi-sat-types:sat_delay_rate_t
|  |  +--rw cir-frame-delay-variation-range?  uint16
|  |  +--rw cir-frame-delay?        ipi-sat-types:sat_delay_rate_t
|  |  +--rw cir-frame-delay-range?   uint16
|  +--ro state
|  |  +--ro acceptance-pname?      string
|  |  +--ro cir-frame-loss-ratio?   string
|  |  +--ro cir-frame-loss-ratio-policing?  string
|  |  +--ro cir-frame-delay-variation?  ipi-sat-types:sat_delay_rate_t
|  |  +--ro cir-frame-delay-variation-range?  uint16
|  |  +--ro cir-frame-delay?        ipi-sat-types:sat_delay_rate_t
|  |  +--ro cir-frame-delay-range?   uint16
+--rw frame-size-profiles
|  +--rw frame-size-profile* [size-pname]
|  +--rw size-pname  -> ../config/size-pname
|  +--rw config
|  |  +--rw size-pname?  string
|  |  +--rw size-a?     empty
|  |  +--rw size-b?     empty
|  |  +--rw size-c?     empty
|  |  +--rw size-d?     empty
|  |  +--rw size-e?     empty
|  |  +--rw size-f?     empty
|  |  +--rw size-g?     empty
|  |  +--rw size-h?     uint16
|  |  +--rw size-u?     uint16
|  +--ro state
|  |  +--ro size-pname?  string
|  |  +--ro size-a?     empty
|  |  +--ro size-b?     empty
|  |  +--ro size-c?     empty

```

```
|   +--ro size-d?    empty
|   +--ro size-e?    empty
|   +--ro size-f?    empty
|   +--ro size-g?    empty
|   +--ro size-h?    uint16
|   +--ro size-u?    uint16
+--rw tests
| +--rw test* [test-name]
|   +--rw test-name    -> ../config/test-name
|   +--rw config
|   | +--rw test-name?  string
|   | +--rw description? cml-data-types:cml_line_t
|   | +--rw direction?  ipi-sat-types:sat_direction_t
|   | +--rw stream-run?  ipi-sat-types:sat_stream_run_t
|   +--ro state
|   | +--ro test-name?  string
|   | +--ro description? cml-data-types:cml_line_t
|   | +--ro direction?  ipi-sat-types:sat_direction_t
|   | +--ro stream-run?  ipi-sat-types:sat_stream_run_t
|   +--rw service-tests
|   | +--rw service-test* [test-type]
|   |   +--rw test-type  -> ../config/test-type
|   |   +--rw config
|   |   | +--rw test-type? ipi-sat-types:sat_service_t
|   |   | +--rw duration?  empty
|   |   | +--rw hours?     uint8
|   |   | +--rw minutes?   uint8
|   |   | +--rw seconds?   uint8
|   |   +--ro state
|   |   | +--ro test-type? ipi-sat-types:sat_service_t
|   |   | +--ro duration?  empty
|   |   | +--ro hours?     uint8
|   |   | +--ro minutes?   uint8
|   |   | +--ro seconds?   uint8
|   +--rw streams
|   | +--rw stream* [stream-name]
```

```

| | +--rw stream-name    -> ../config/stream-name
| | +--rw config
| | | +--rw stream-name?    string
| | | +--rw description?    cml-data-types:cml_line_t
| | | +--rw rate-profile?    -> /sat/rate-profiles/rate-profile/config/rate-pname
| | | +--rw acceptance-profile? -> /sat/acceptance-profiles/acceptance-profile/config/acceptance-pname
| | | +--rw frame-size-profile? -> /sat/frame-size-profiles/frame-size-profile/config/size-pname
| | | +--rw frame-sequence?    string
| | | +--rw frame-data-pattern? ipi-sat-types:sat_data_pattern_t
| | | +--rw frame-delay-disable? empty
| | +--ro state
| | | +--ro stream-name?    string
| | | +--ro description?    cml-data-types:cml_line_t
| | | +--ro rate-profile?    -> /sat/rate-profiles/rate-profile/config/rate-pname
| | | +--ro acceptance-profile? -> /sat/acceptance-profiles/acceptance-profile/config/acceptance-pname
| | | +--ro frame-size-profile? -> /sat/frame-size-profiles/frame-size-profile/config/size-pname
| | | +--ro frame-sequence?    string
| | | +--ro frame-data-pattern? ipi-sat-types:sat_data_pattern_t
| | | +--ro frame-delay-disable? empty
| | +--rw frame-payload
| | | +--rw config!
| | | | +--rw frame-payload    empty
| | | | +--rw dst-mac?        ipi-sat-types:sat_mac_addr_t
| | | | +--rw source-interface? -> /ipi-interface:interfaces/interface/name
| | | | +--rw tag-type?        ipi-sat-types:sat_tag_type_t
| | | | +--rw vlan-id?        uint16
| | | | +--rw inner-vlan-id?    uint16
| | | +--ro state
| | | | +--ro frame-payload    empty
| | | | +--ro dst-mac?        ipi-sat-types:sat_mac_addr_t
| | | | +--ro source-interface? -> /ipi-interface:interfaces/interface/name
| | | | +--ro tag-type?        ipi-sat-types:sat_tag_type_t
| | | | +--ro vlan-id?        uint16
| | | | +--ro inner-vlan-id?    uint16
| | +--rw cfm
| | | +--rw config!

```

```

| | | +--rw domain-name  string
| | | +--rw ma-name      string
| | | +--rw mep-id       uint16
| |   +--ro state
| |     +--ro domain-name  string
| |     +--ro ma-name      string
| |     +--ro mep-id       uint16
|   +--ro runs
| | +--ro run* [run-id]
| |   +--ro run-id      -> ../state/run-id
| |   +--ro state
| |     +--ro run-id?    uint8
| |     +--ro description? string
| |     +--ro oper-state? ipi-sat-types:sat_oper_status
| |     +--ro start-time? string
| |     +--ro end-time?  string
| |     +--ro direction? ipi-sat-types:sat_direction_t
| |     +--ro stream-run? ipi-sat-types:sat_stream_run_t
| |   +--ro service-streams
| |     +--ro service-stream* [stream-name]
| |       +--ro stream-name -> ../state/stream-name
| |       +--ro state
| |         +--ro stream-name?    string
| |         +--ro cir?            string
| |         +--ro cir-range?      uint32
| |         +--ro cir-unit?       ipi-sat-types:sat_rate_unit_t
| |         +--ro cir-cos?        uint8
| |         +--ro cir-dei?        uint8
| |         +--ro eir?            string
| |         +--ro eir-range?      uint32
| |         +--ro eir-unit?       ipi-sat-types:sat_rate_unit_t
| |         +--ro eir-cos?        uint8
| |         +--ro eir-dei?        uint8
| |         +--ro color-mthod?    string
| |         +--ro color-aware?    ipi-sat-types:sat_color_aware_type
| |         +--ro test-mtu?       string

```

```

| | | +--ro frame-info?      string
| | | +--ro cir-flr?        string
| | | +--ro cir-ftd-delay?   uint16
| | | +--ro cir-ftd-delay-unit? ipi-sat-types:sat_delay_rate_t
| | | +--ro cir-fdv-delay?   uint16
| | | +--ro cir-fdv-delay-unit? ipi-sat-types:sat_delay_rate_t
| | | +--ro interface-name?  string
| | | +--ro destination-mac? string
| | | +--ro encap-tag?       ipi-sat-types:sat_tag_type_t
| | | +--ro outer-vid?       uint8
| | | +--ro inner-vlan-id?   uint8
| | | +--ro cfm-details?     string
| | +--ro s-tests
| |   +--ro s-test* [stest-name]
| |     +--ro stest-name  -> ../state/stest-name
| |     +--ro state
| |       | +--ro stest-name?      string
| |       | +--ro load?           string
| |       | +--ro opera-status?   ipi-sat-types:sat_oper_status
| |       | +--ro test-duration?  string
| |       | +--ro start-time?     string
| |       | +--ro end-time?       string
| |       | +--ro tx-packets?     uint64
| |       | +--ro tx-bytes?       uint64
| |       | +--ro rx-packets?     uint64
| |       | +--ro rx-bytes?       uint64
| |       | +--ro frame-loss?     uint64
| |       | +--ro frame-loss-ratio? string
| |       | +--ro frame-delay?    string
| |       | +--ro frame-delay-variation? string
| |       | +--ro frame-delay-min? string
| |       | +--ro frame-delay-max? string
| |       | +--ro frame-delay-exceed? string
| |       | +--ro out-of-order-packets? uint64
| |       | +--ro error-packets?  uint64
| |     +--ro results

```

```

| |      +--ro result* [result-name]
| |      +--ro result-name  -> ../state/result-name
| |      +--ro state
| |          +--ro result-name?      string
| |          +--ro tx-packets?      uint64
| |          +--ro tx-bytes?        uint64
| |          +--ro rx-packets?      uint64
| |          +--ro rx-bytes?        uint64
| |          +--ro frame-loss?      uint64
| |          +--ro frame-loss-ratio? string
| |          +--ro frame-delay?      string
| |          +--ro frame-delay-variation? string
| |          +--ro frame-delay-min?  string
| |          +--ro frame-delay-max?  string
| |          +--ro frame-delay-exceed? string
| |          +--ro out-of-order-packets? uint64
| |          +--ro error-packets?    uint64
| +--ro summaries
|   +--ro summary* [run]
|     +--ro run  -> ../state/run
|     +--ro state
|       +--ro run?      uint8
|       +--ro status?   ipi-sat-types:sat_summary_status
|       +--ro start-time? string
|       +--ro end-time?  string
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name  -> ../config/interface-name
    +--rw config
    | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
    | +--rw data-loopback?  ipi-sat-types:sat_direction_t
    +--ro state
      +--ro interface-name? -> /ipi-interface:interfaces/interface/name
      +--ro data-loopback?  ipi-sat-types:sat_direction_t

```

rpcs:


```

+---x service-activation-test-start {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
| +---w input
|   +---w test-name      string
|   +---w sat-unit?      ipi-sat-types:sat_service_t
|   +---w service-stream? string
|   +---w repeat-last-fail-test? ipi-sat-types:sat_repeat_last_fail_test_t
+---x service-activation-test-abort {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
| +---w input
|   +---w test-name      string
|   +---w sat-unit?      ipi-sat-types:sat_service_t
|   +---w service-stream? string
+---x service-activation-test-clear {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
| +---w input
|   +---w test-name      string
|   +---w sat-unit?      ipi-sat-types:sat_service_t
|   +---w service-stream? string
+---x data-loopback-start {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
| +---w input
|   +---w interface-name  string
|   +---w timeout         uint16
+---x data-loopback-abort {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
    +---w input
        +---w interface-name  string
        +---w timeout         uint16

```

notifications:

```

+---n sat-tests-results-completed
    +--ro severity?  cml-data-types:cml_notif_severity_t
    +--ro eventClass? cml-data-types:cml_notif_class_t
    +--ro run?       uint8
    +--ro test-name?  string
    +--ro status?     ipi-sat-types:sat_summary_status

```

ipi-seamless-bfd

```

+--rw seamless-bfd
  +--ro state
    | +--ro remote-discriminator*  string
  +--rw sr-policies
    | +--rw sr-policy* [lsp-type sr-policy-name]
    |   +--rw lsp-type          -> ../config/lsp-type
    |   +--rw sr-policy-name     -> ../config/sr-policy-name
    |   +--rw config
    |     | +--rw lsp-type?      ipi-sbfd-types:sbfd_sr_type_t
    |     | +--rw sr-policy-name? string
    |     +--ro state
    |       | +--ro lsp-type?      ipi-sbfd-types:sbfd_sr_type_t
    |       | +--ro sr-policy-name? string
    |       +--rw session-attributes
    |         +--rw config
    |           | +--rw admin-down?  empty
    |           +--ro state
    |             | +--ro admin-down?  empty
    |             +--rw intervals
    |               +--rw interval* [minimum-tx detection-multiplier]
    |                 +--rw minimum-tx          -> ../config/minimum-tx
    |                 +--rw detection-multiplier -> ../config/detection-multiplier
    |                 +--rw config
    |                   | +--rw minimum-tx?      uint32
    |                   | +--rw detection-multiplier? uint8
    |                   +--ro state
    |                     +--ro minimum-tx?      uint32
    |                     +--ro detection-multiplier? uint8
  +--rw local-discriminators
    +--rw local-discriminator* [discriminator]
    +--rw discriminator -> ../config/discriminator
    +--rw config
    | +--rw discriminator?      string
    | +--rw required-min-rx-interval? uint32

```

```

+--ro state
  +--ro discriminator?      string
  +--ro required-min-rx-interval? uint32

```

ipi-segment-routing

```

+--rw segment-routing {feature-list:HAVE_SRV6_OR_HAVE_SR_MPLS}?
  +--rw config!
    | +--rw enable      empty
    | +--rw flex-algo-enable? empty
    +--ro state
      | +--ro enable      empty
      | +--ro flex-algo-enable? empty
      +--rw interfaces {feature-list:HAVE_SR_MPLS}?
        | +--rw interface* [name]
        |   +--rw name      -> ../config/name
        |   +--rw config
        |     | +--rw name? -> /ipi-interface:interfaces/interface/name
        |     +--rw adjacency-segments {feature-list:HAVE_SR_MPLS}?
        |       | +--rw adjacency-segment* [adj-sid-proto]
        |       |   +--rw adj-sid-proto  -> ../config/adj-sid-proto
        |       |   +--rw config
        |       |     | +--rw adj-sid-proto?  ipi-sr-types:sr_adj_proto_type
        |       |     | +--rw adj-sid-absolute? uint32
        |       |     | +--rw adj-sid-index?   uint32
        |       |     +--ro state
        |       |       +--ro adj-sid-proto?  ipi-sr-types:sr_adj_proto_type
        |       |       +--ro adj-sid-absolute? uint32
        |       |       +--ro adj-sid-index?   uint32
        |     +--rw prefix-segment-algorithms {feature-list:HAVE_SR_MPLS}?
        |       +--rw prefix-segment-algorithm* [algorithm-num]

```

```

|      +--rw algorithm-num  -> ../config/algorithm-num
|      +--rw config
|      | +--rw algorithm-num?  ipi-sr-types:sr_algo_choice_t
|      | +--rw sid-absolute?   uint32
|      | +--rw sid-index?     uint32
|      | +--rw exp-null?      ipi-sr-types:if_sr_prefix_flag_t
|      | +--rw n-flag-clear?   ipi-sr-types:if_sr_n_flag_clear_t
|      +--ro state
|      | +--ro algorithm-num?  ipi-sr-types:sr_algo_choice_t
|      | +--ro sid-absolute?   uint32
|      | +--ro sid-index?     uint32
|      | +--ro exp-null?      ipi-sr-types:if_sr_prefix_flag_t
|      | +--ro n-flag-clear?   ipi-sr-types:if_sr_n_flag_clear_t
+--rw sr-mpls {feature-list:HAVE_SR_MPLS}?
| +--rw sr-prefer-over-ldp
| | +--rw config
| | | +--rw enable-preference?  empty
| | +--ro state
| | +--ro enable-preference?  empty
| +--rw bindings
| | +--rw mapping-server
| | +--rw config!
| | | +--rw enable  empty
| | +--ro state
| | | +--ro enable  empty
| | +--rw srms-preferenece
| | | +--rw config
| | | | +--rw preference?  uint8
| | | +--ro state
| | | +--ro preference?  uint8
| | +--rw prefix-sid-map-ipv4
| | +--rw config!
| | | +--rw enable  empty
| | +--ro state
| | | +--ro enable  empty
| | +--rw mapping-entries

```

```

| |      +--rw mapping-entry* [start-address start-sid]
| |      +--rw start-address  -> ../config/start-address
| |      +--rw start-sid      -> ../config/start-sid
| |      +--rw config
| |      | +--rw start-address? cml-data-types:cml_ipv4_prefix_t
| |      | +--rw start-sid?    uint32
| |      | +--rw range?        uint32
| |      | +--rw attached?     boolean
| |      | +--rw algorithm-num? uint32
| |      +--ro state
| |      | +--ro start-address? cml-data-types:cml_ipv4_prefix_t
| |      | +--ro start-sid?    uint32
| |      | +--ro range?        uint32
| |      | +--ro attached?     boolean
| |      | +--ro algorithm-num? uint32
| |      +--ro ipv4-table
| |      +--ro state
| |      +--ro start-prefix?    cml-data-types:cml_ip_prefix_addr_t
| |      +--ro algorithm-num?   uint8
| |      +--ro start-sid-index? uint16
| |      +--ro range?           uint16
| |      +--ro end-prefix?      cml-data-types:cml_ip_prefix_addr_t
| |      +--ro end-sid-index?   uint16
| |      +--ro attached?        empty
| |      +--ro preference?      uint8
| +--rw global-block {feature-list:HAVE_SR_MPLS}?
| | +--rw config!
| | | +--rw start  uint32
| | | +--rw end    uint32
| | +--ro state
| | | +--ro start  uint32
| | | +--ro end    uint32
| +--rw local-block {feature-list:HAVE_SR_MPLS}?
| | +--rw config!
| | | +--rw start  uint32
| | | +--rw end    uint32

```

```

|   +--ro state
|   +--ro start   uint32
|   +--ro end     uint32
+--rw traffic-engineering {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| +--rw config!
| | +--rw enable          empty
| | +--rw fast-reroute-enable?  empty {feature-list:HAVE_SR_POLICY}?
| +--ro state
| | +--ro enable          empty
| | +--ro fast-reroute-enable?  empty {feature-list:HAVE_SR_POLICY}?
| +--rw attributes
| | +--rw segment-lists {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| |   +--rw segment-list* [list-name]
| |     +--rw list-name   -> ../config/list-name
| |     +--rw config
| |       | +--rw list-name?  string
| |       +--ro state
| |       | +--ro list-name?  string
| |       +--rw segments
| |         +--rw segment* [segment-index type]
| |           | +--rw segment-index   -> ../config/segment-index
| |           | +--rw type             -> ../config/type
| |           | +--rw config
| |           | | +--rw segment-index?  uint32
| |           | | +--rw type?           ipi-sr-types:srte_segment_type_mpls_t
| |           | +--ro state
| |           | | +--ro segment-index?  uint32
| |           | | +--ro type?           ipi-sr-types:srte_segment_type_mpls_t
| |           | +--rw segment-type-1 {feature-list:HAVE_SR_MPLS}?
| |           |   +--rw config
| |           |   | +--rw sid-value?  uint32
| |           |   +--ro state
| |           |   +--ro sid-value?  uint32
| |           +--rw segment-v6* [segment-index type]
| |             +--rw segment-index   -> ../config/segment-index
| |             +--rw type             -> ../config/type

```

```

| |      +--rw config
| |      | +--rw segment-index? uint32
| |      | +--rw type?          ipi-sr-types:srte_segment_type_2_t
| |      +--ro state
| |      | +--ro segment-index? uint32
| |      | +--ro type?          ipi-sr-types:srte_segment_type_2_t
| |      +--rw segment-type-2 {feature-list:HAVE_SRV6}?
| |      +--rw config
| |      | +--rw prefix? inet:ipv6-address
| |      +--ro state
| |      | +--ro prefix? inet:ipv6-address
| +--rw policies {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| | +--rw policy* [name]
| |   +--rw name          -> ../config/name
| |   +--rw policy-keys
| |   | +--rw policy-key* [color end-point]
| |   |   +--rw color      -> ../config/color
| |   |   +--rw end-point  -> ../config/end-point
| |   |   +--rw config
| |   |   | +--rw color?    uint32
| |   |   | +--rw end-point? inet:ip-address
| |   |   +--ro state
| |   |   | +--ro color?    uint32
| |   |   | +--ro end-point? inet:ip-address
| |   +--rw config
| |   | +--rw name?        string
| |   | +--rw admin-state? empty
| |   | +--rw explicit-null? ipi-sr-types:srte_explicite_null_type_t {feature-list:HAVE_SR_POLICY}?
| |   | +--rw cspf-retry-limit? uint32 {feature-list:HAVE_SR_POLICY}?
| |   | +--rw cspf-retry-interval? uint32 {feature-list:HAVE_SR_POLICY}?
| |   | +--rw entropy-erld?    uint8 {feature-list:HAVE_SR_POLICY}?
| |   | +--rw bsid-value?     uint32 {feature-list:HAVE_SR_POLICY}?
| |   +--rw candidate-paths
| |   | +--rw candidate-path* [discriminator protocol-origin originator]
| |   |   +--rw discriminator  -> ../config/discriminator
| |   |   +--rw protocol-origin -> ../config/protocol-origin

```

```

| | | +--rw originator      -> ../config/originator
| | | +--rw config
| | | | +--rw discriminator?  uint32
| | | | +--rw protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
| | | | +--rw originator?     string
| | | | +--rw preference?     uint32
| | | +--ro state
| | | | +--ro discriminator?   uint32
| | | | +--ro protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
| | | | +--ro originator?     string
| | | | +--ro preference?     uint32
| | | | +--ro is-valid?       boolean
| | | | +--ro non-selection-reason? cml-data-types:cml_line_t
| | | | +--ro is-best-candidate-path? boolean
| | | +--ro forwarding-paths
| | | | +--ro forwarding-path
| | | | | +--ro state
| | | | | | +--ro path-id?      uint8
| | | | | | +--ro next-hop-address? inet:ip-address
| | | | | | +--ro outgoing-interface? string
| | | | | | +--ro path-type?    string
| | | | | +--ro label-stack
| | | | | | +--ro labels
| | | | | | +--ro state
| | | | | | +--ro label? string
| | | +--rw dynamic {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | +--rw config
| | | | | +--rw pcep?      empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| | | | | +--rw isis?      string
| | | | | +--rw ospf?      int32
| | | | | +--rw ospf-empty? empty
| | | | +--ro state
| | | | | +--ro pcep?      empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| | | | | +--ro isis?      string
| | | | | +--ro ospf?      int32
| | | | | +--ro ospf-empty? empty

```

```
| | | | +--rw constraints
| | | |   +--rw config!
| | | | | +--rw enable      empty
| | | | | +--rw hop-limit?  uint8
| | | | | +--ro state
| | | | | +--ro enable      empty
| | | | | +--ro hop-limit?  uint8
| | | | | +--rw bounds
| | | | | +--rw bound* [metric-type]
| | | | |   +--rw metric-type -> ../config/metric-type
| | | | |   +--rw config
| | | | | | +--rw metric-type?  ipi-sr-types:srte_cp_metric_type_t
| | | | | | +--rw bound?       uint32
| | | | | | +--rw segment-bound? uint32
| | | | | | +--ro state
| | | | | |   +--ro metric-type? ipi-sr-types:srte_cp_metric_type_t
| | | | | |   +--ro bound?       uint32
| | | | | |   +--ro segment-bound? uint32
| | | | | +--rw admin-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | | +--rw admin-group* [admin-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | |   +--rw admin-group-name -> ../config/admin-group-name
| | | | | |   +--rw config
| | | | | | | +--rw affinity-type?  ipi-sr-types:sr_te_admin_group_type_t
| | | | | | | +--rw admin-group-name? string
| | | | | | | +--ro state
| | | | | | |   +--ro affinity-type? ipi-sr-types:sr_te_admin_group_type_t
| | | | | | |   +--ro admin-group-name? string
| | | | | +--rw extended-admin-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | | +--rw extended-admin-group* [extended-admin-group-name] {feature-
list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | |   +--rw extended-admin-group-name -> ../config/extended-admin-group-name
| | | | | |   +--rw config
| | | | | | | +--rw extended-admin-affinity-type? ipi-sr-types:sr_te_extended_admin_group_type_t
| | | | | | | +--rw extended-admin-group-name?  string
| | | | | | | +--ro state
| | | | | | |   +--ro extended-admin-affinity-type? ipi-sr-types:sr_te_extended_admin_group_type_t
| | | | | | |   +--ro extended-admin-group-name?  string
```

```

| | | | +--rw srlg-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | +--rw srlg-group* [srlg-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| | | | | +--rw srlg-group-name -> ../config/srlg-group-name
| | | | | +--rw config
| | | | | | +--rw srlg-affinity-type? ipi-sr-types:sr_te_srlg_affinity_type_t
| | | | | | +--rw srlg-group-name? string
| | | | | +--ro state
| | | | | +--ro srlg-affinity-type? ipi-sr-types:sr_te_srlg_affinity_type_t
| | | | | +--ro srlg-group-name? string
| | | | +--rw ip
| | | | | +--rw include-hop* [address]
| | | | | +--rw address -> ../config/address
| | | | | +--rw config
| | | | | | +--rw address? inet:ip-address
| | | | | | +--rw type? ipi-sr-types:srte_ip_constraint_hop_type_t
| | | | | +--ro state
| | | | | +--ro address? inet:ip-address
| | | | | +--ro type? ipi-sr-types:srte_ip_constraint_hop_type_t
| | | | +--rw ip-address-filters
| | | | | +--rw ip-address-filter* [ihaf-address]
| | | | | +--rw ihaf-address -> ../config/ihaf-address
| | | | | +--rw config
| | | | | | +--rw ihaf-affinity-type? ipi-sr-types:srte_ip_constraint_hop_filter_type_t
| | | | | | +--rw ihaf-address? inet:ip-address
| | | | | +--ro state
| | | | | +--ro ihaf-affinity-type? ipi-sr-types:srte_ip_constraint_hop_filter_type_t
| | | | | +--ro ihaf-address? inet:ip-address
| | | | +--rw segment-rule
| | | | | +--rw config!
| | | | | | +--rw enable empty
| | | | | +--ro state
| | | | | | +--ro enable empty
| | | | | +--rw property
| | | | | +--rw config!
| | | | | | +--rw dataplane-type? ipi-sr-types:sr_dyn_cp_dataplane_type_t
| | | | | | +--rw sid-algorithm? uint32

```

```

| | | | | | +--rw protection-type? ipi-sr-types:sr_dyn_cp_protection_type_t
| | | | | +--ro state
| | | | | +--ro dataplane-type? ipi-sr-types:sr_dyn_cp_dataplane_type_t
| | | | | +--ro sid-algorithm? uint32
| | | | | +--ro protection-type? ipi-sr-types:sr_dyn_cp_protection_type_t
| | | | +--rw disjoint-paths
| | | | +--rw disjoint-path* [group-id disjoint-type]
| | | | +--rw group-id -> ../config/group-id
| | | | +--rw disjoint-type -> ../config/disjoint-type
| | | | +--rw config!
| | | | | +--rw group-id? uint32
| | | | | +--rw disjoint-type? ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
| | | | | +--rw sub-id? uint32
| | | | +--ro state
| | | | +--ro group-id? uint32
| | | | +--ro disjoint-type? ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
| | | | +--ro sub-id? uint32
| | | +--rw explicit
| | | +--rw segment-lists {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| | | +--rw segment-list* [list-name]
| | | +--rw list-name -> ../config/list-name
| | | +--rw config
| | | +--rw list-name? string
| | +--ro state
| | | +--ro statistics {feature-list:HAVE_SR_POLICY}?
| | | | +--ro tx-bytes? uint64
| | | | +--ro rx-bytes? uint64
| | | | +--ro tx-packets? uint64
| | | | +--ro rx-packets? uint64
| | | +--ro name? string
| | | +--ro admin-state? empty
| | | +--ro explicit-null? ipi-sr-types:srte_explicite_null_type_t {feature-list:HAVE_SR_POLICY}?
| | | +--ro cspf-retry-limit? uint32 {feature-list:HAVE_SR_POLICY}?
| | | +--ro cspf-retry-interval? uint32 {feature-list:HAVE_SR_POLICY}?
| | | +--ro entropy-erld? uint8 {feature-list:HAVE_SR_POLICY}?
| | | +--ro bsid-value? uint32 {feature-list:HAVE_SR_POLICY}?

```

```

| | | +--ro oper-state?      ipi-sr-types:srte_policy_oper_state_t
| | | +--ro transition-count? uint32
| | | +--ro up-time?         string
| | | +--ro down-time?       string
| | | +--ro bsid-alloc-mode?  string
| | | +--ro bsid-oper-state?  ipi-sr-types:sr_policy_bsid_oper_state
| | +--rw pce {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |   +--rw config
| |     | +--rw pce-lsp-delegate? empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |     | +--rw pce-state-report? empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |     | +--rw pce-entity-id?   uint32 {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |     +--ro state
| |       +--ro pce-lsp-delegate? empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       +--ro pce-state-report? empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       +--ro pce-entity-id?   uint32 {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| +--rw on-demand-nexthops {feature-list:HAVE_SR_POLICY}?
|   +--rw on-demand-nexthop* [color]
|     +--rw color          -> ../config/color
|     +--rw config
|       | +--rw color?      uint32
|       | +--rw flex-algo?  uint8
|       | +--rw cspf-retry-limit? uint16
|       | +--rw cspf-retry-interval? uint16
|       | +--rw binding-sid-label? uint16
|       | +--rw fallback-native-sr? empty
|       | +--rw fallback-flex-algo? uint8
|       +--ro state
|         | +--ro color?      uint32
|         | +--ro flex-algo?  uint8
|         | +--ro cspf-retry-limit? uint16
|         | +--ro cspf-retry-interval? uint16
|         | +--ro binding-sid-label? uint16
|         | +--ro fallback-native-sr? empty
|         | +--ro fallback-flex-algo? uint8
|         +--rw candidate-paths
|           | +--rw candidate-path* [discriminator protocol-origin originator]

```

```

|   |   +--rw discriminator    -> ../config/discriminator
|   |   +--rw protocol-origin  -> ../config/protocol-origin
|   |   +--rw originator       -> ../config/originator
|   |   +--rw config
|   |   |   +--rw discriminator?  uint32
|   |   |   +--rw protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
|   |   |   +--rw originator?     string
|   |   |   +--rw preference?     uint16
|   |   +--ro state
|   |   |   +--ro discriminator?  uint32
|   |   |   +--ro protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
|   |   |   +--ro originator?     string
|   |   |   +--ro preference?     uint16
|   |   +--rw dynamic {feature-list:HAVE_SR_POLICY}?
|   |   +--rw config
|   |   |   +--rw pcep?           empty {feature-list:HAVE_PCEP_SR}?
|   |   |   +--rw isis-instance-id? string
|   |   |   +--rw ospf-process-id? int32
|   |   |   +--rw ospf-empty?     empty
|   |   +--ro state
|   |   |   +--ro pcep?           empty {feature-list:HAVE_PCEP_SR}?
|   |   |   +--ro isis-instance-id? string
|   |   |   +--ro ospf-process-id? int32
|   |   |   +--ro ospf-empty?     empty
|   |   +--rw constraints
|   |   +--rw config!
|   |   |   +--rw enable        empty
|   |   |   +--rw hop-limit?    uint8
|   |   +--ro state
|   |   |   +--ro enable        empty
|   |   |   +--ro hop-limit?    uint8
|   |   +--rw bounds
|   |   |   +--rw bound* [metric-type]
|   |   |   |   +--rw metric-type -> ../config/metric-type
|   |   |   |   +--rw config
|   |   |   |   |   +--rw metric-type? ipi-sr-types:srte_cp_metric_type_t

```

```

|   |   |   | +--rw bound?      uint32
|   |   |   | +--ro state
|   |   |   |   +--ro metric-type? ipi-sr-types:srte_cp_metric_type_t
|   |   |   |   +--ro bound?      uint32
|   |   |   +--rw affinity-admin-groups
|   |   |   | +--rw affinity-admin-group* [admin-group-name] {feature-list:HAVE_SR_POLICY}?
|   |   |   |   +--rw admin-group-name -> ../config/admin-group-name
|   |   |   |   +--rw config
|   |   |   |   | +--rw affinity-type? ipi-sr-types:sr_te_admin_group_type_t
|   |   |   |   | +--rw admin-group-name? string
|   |   |   |   +--ro state
|   |   |   |   +--ro affinity-type? ipi-sr-types:sr_te_admin_group_type_t
|   |   |   |   +--ro admin-group-name? string
|   |   |   +--rw affinity-extended-admin-groups
|   |   |   | +--rw affinity-extended-admin-group* [extended-admin-group-name] {feature-
list:HAVE_SR_POLICY}?
|   |   |   |   +--rw extended-admin-group-name -> ../config/extended-admin-group-name
|   |   |   |   +--rw config
|   |   |   |   | +--rw extended-admin-affinity-type? ipi-sr-types:sr_te_extended_admin_group_type_t
|   |   |   |   | +--rw extended-admin-group-name? string
|   |   |   |   +--ro state
|   |   |   |   +--ro extended-admin-affinity-type? ipi-sr-types:sr_te_extended_admin_group_type_t
|   |   |   |   +--ro extended-admin-group-name? string
|   |   |   +--rw srlg-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
|   |   |   | +--rw srlg-group* [srlg-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
|   |   |   |   +--rw srlg-group-name -> ../config/srlg-group-name
|   |   |   |   +--rw config
|   |   |   |   | +--rw srlg-affinity-type? ipi-sr-types:sr_te_srlg_affinity_type_t
|   |   |   |   | +--rw srlg-group-name? string
|   |   |   |   +--ro state
|   |   |   |   +--ro srlg-affinity-type? ipi-sr-types:sr_te_srlg_affinity_type_t
|   |   |   |   +--ro srlg-group-name? string
|   |   |   +--rw ip
|   |   |   | +--rw include-hops
|   |   |   |   +--rw include-hop* [address]
|   |   |   |   +--rw address -> ../config/address
|   |   |   |   +--rw config

```

```

|   |   |   | +--rw address?  inet:ip-address
|   |   |   | +--rw type?    ipi-sr-types:srte_ip_constraint_hop_type_t
|   |   |   | +--ro state
|   |   |   | +--ro address?  inet:ip-address
|   |   |   | +--ro type?    ipi-sr-types:srte_ip_constraint_hop_type_t
|   |   +--rw ip-address-filters
|   |   | +--rw ip-address-filter* [ihaf-address]
|   |   | +--rw ihaf-address  -> ../config/ihaf-address
|   |   | +--rw config
|   |   | | +--rw ihaf-affinity-type? ipi-sr-types:srte_ip_constraint_hop_filter_type_t
|   |   | | +--rw ihaf-address?      inet:ip-address
|   |   | | +--ro state
|   |   | | +--ro ihaf-affinity-type? ipi-sr-types:srte_ip_constraint_hop_filter_type_t
|   |   | | +--ro ihaf-address?      inet:ip-address
|   |   +--rw segment-rule
|   |   | +--rw config!
|   |   | | +--rw enable  empty
|   |   | | +--ro state
|   |   | | +--ro enable  empty
|   |   | +--rw property
|   |   | +--rw config!
|   |   | | +--rw dataplane-type? ipi-sr-types:sr_dyn_cp_dataplane_type_t
|   |   | | +--rw sid-algorithm?  uint32
|   |   | | +--rw protection-type? ipi-sr-types:sr_dyn_cp_protection_type_t
|   |   | | +--ro state
|   |   | | +--ro dataplane-type? ipi-sr-types:sr_dyn_cp_dataplane_type_t
|   |   | | +--ro sid-algorithm?  uint32
|   |   | | +--ro protection-type? ipi-sr-types:sr_dyn_cp_protection_type_t
|   |   +--rw disjoint-paths
|   |   | +--rw disjoint-path* [group-id disjoint-type]
|   |   | +--rw group-id      -> ../config/group-id
|   |   | +--rw disjoint-type -> ../config/disjoint-type
|   |   | +--rw config!
|   |   | | +--rw group-id?    uint32
|   |   | | +--rw disjoint-type? ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
|   |   | | +--rw sub-id?     uint32

```

```

|   |           +--ro state
|   |           +--ro group-id?    uint32
|   |           +--ro disjoint-type? ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
|   |           +--ro sub-id?      uint32
|   +--rw pce {feature-list:HAVE_PCEP_SR}?
|       +--rw config
|           | +--rw pce-state-report? empty {feature-list:HAVE_PCEP_SR}?
|           | +--rw pce-entity-id?   uint8 {feature-list:HAVE_PCEP_SR}?
|           | +--rw pce-lsp-delegate? empty {feature-list:HAVE_PCEP_SR}?
|           +--ro state
|               +--ro pce-state-report? empty {feature-list:HAVE_PCEP_SR}?
|               +--ro pce-entity-id?   uint8 {feature-list:HAVE_PCEP_SR}?
|               +--ro pce-lsp-delegate? empty {feature-list:HAVE_PCEP_SR}?
+--rw srv6 {feature-list:HAVE_SRV6}?
| +--rw config!
| | +--rw enable empty
| | +--ro state
| | | +--ro enable empty
| | +--rw locators {feature-list:HAVE_SRV6}?
| | | +--rw config!
| | | | +--rw enable empty
| | | | +--ro state
| | | | | +--ro enable empty
| | | | +--rw locator* [locator-name]
| | | | | +--rw locator-name -> ../config/locator-name
| | | | +--rw config
| | | | | +--rw locator-name? string
| | | | | +--rw prefix?      cml-data-types:cml_ipv6_prefix_t
| | | | +--ro state
| | | | | +--ro locator-name? string
| | | | | +--ro prefix?      cml-data-types:cml_ipv6_prefix_t
| | | | | +--ro uptime?     string
| | +--ro services-entries
| | | +--ro services-entry* [fec-ipv4-prefix service-vrf-id]
| | | +--ro fec-ipv4-prefix -> ../state/fec-ipv4-prefix
| | | +--ro service-vrf-id  -> ../state/service-vrf-id

```

```

| | +--ro state
| |   +--ro fec-ipv4-prefix?    cml-data-types:cml_ipv4_prefix_t
| |   +--ro service-vrf-id?     uint32
| |   +--ro service-vrf-name?   string
| |   +--ro service-type?       string
| |   +--ro flags?              string
| |   +--ro address-family?     uint32
| |   +--ro sid?                inet:ipv6-address
| |   +--ro nexthop-ipv6-prefix? inet:ipv6-address
| |   +--ro service-policy-name? string
| +--ro transport-entries
| | +--ro transport-entry* [fec]
| |   +--ro fec      -> ../state/fec
| |   +--ro state
| |     | +--ro fec?          inet:ipv6-address
| |     | +--ro policy-name?  string
| |     | +--ro policy-id?    uint32
| |     | +--ro transport-color? uint32
| |     | +--ro code?         string
| |     | +--ro is-primary?   boolean
| |     | +--ro out-sid?      inet:ipv6-address
| |     | +--ro out-interface? string
| |     | +--ro nexthop?      inet:ipv6-address
| |   +--ro ftn-entries
| |     +--ro ftn-entry* [vrf-id fec-prefix]
| |       +--ro vrf-id      -> ../state/vrf-id
| |       +--ro fec-prefix  -> ../state/fec-prefix
| |       +--ro state
| |         +--ro vrf-id?    uint32
| |         +--ro fec-prefix? cml-data-types:cml_ipv4_addr_prefix_t
| |         +--ro vrf-name?  string
| |         +--ro ftn-nexthop? inet:ipv6-address
| |         +--ro tunnel-policy? string
| |         +--ro ftn-color?  uint32
| +--ro manager-entries {feature-list:HAVE_SRV6}?
|   +--ro state

```

```

|   +--ro protocol-state?          ipi-sr-types:srv6_protocol_state_t
|   +--ro srv6-locator-name?       string
|   +--ro platform-capabilities-end-function*  string
|   +--ro platform-capabilities-ingress-function*  string
|   +--ro platform-capabilities-ingress-sr-policy*  string
+--rw debug {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
  +--rw config
  | +--rw options? ipi-sr-types:sr_te_debug_t
  +--ro state
    +--ro options?          ipi-sr-types:sr_te_debug_t
    +--ro terminal-debug-status? ipi-sr-types:sr_te_debug_t

```

rpcs:

```

+---x sr-policy-terminal-debug-all-on {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
+---x sr-policy-terminal-debug-on {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
| +---w input
|   +---w terminal-debug-options ipi-sr-types:sr_te_debug_t
+---x sr-policy-terminal-debug-off {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
  +---w input
    +---w terminal-debug-options ipi-sr-types:sr_te_debug_t

```

notifications:

```

+---n sr-policy-oper-state-down
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name?      string
| +--ro oper-state? ipi-sr-types:srte_policy_oper_state_t
+---n sr-policy-oper-state-up
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro name?      string
| +--ro oper-state? ipi-sr-types:srte_policy_oper_state_t
+---n sr-policy-cp-active
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro discriminator? uint32

```

```

| +--ro protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
| +--ro originator?      string
| +--ro name?            string
| +--ro is-valid?       boolean
+---n sr-policy-cp-inactive
| +--ro severity?        cml-data-types:cml_notif_severity_t
| +--ro eventClass?      cml-data-types:cml_notif_class_t
| +--ro discriminator?   uint32
| +--ro protocol-origin? ipi-sr-types:srte_protocol_origin_type_type_t
| +--ro originator?      string
| +--ro name?            string
| +--ro is-valid?       boolean
+---n sr-policy-binding-sid-unavailable-event {feature-list:HAVE_SR_POLICY}?
  +--ro severity?        cml-data-types:cml_notif_severity_t
  +--ro eventClass?      cml-data-types:cml_notif_class_t
  +--ro name?            string
  +--ro bsid-value?      uint32

```

ipi-service-map

```

+--rw service-map {feature-list:HAVE_SERVICE_MAPPING}?
  +--rw tunnel-policies
    +--rw tunnel-policy* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name?      string
        | +--rw color-code* uint32
        | +--rw selection-mode? ipi-service-map-types:tunnel_selection_mode_t
        | +--rw tunnel-type?   ipi-service-map-types:tunnel_selection_type_t {feature-
list:HAVE_SRV6_OR_HAVE_SR_MPLS_OR_HAVE_MPLS}?
        +--ro state
          +--ro name?      string
          +--ro color-code* uint32
          +--ro selection-mode? ipi-service-map-types:tunnel_selection_mode_t

```

```

    +--ro tunnel-type?      ipi-service-map-types:tunnel_selection_type_t {feature-
list:HAVE_SRV6_OR_HAVE_SR_MPLS_OR_HAVE_MPLS}?

```

ipi-service-tracking

```

+--rw services-tracking
  +--ro service-tracking* [service-type]
    +--ro service-type    -> ../state/service-type
    +--ro state
      +--ro service-type?      ipi-service-tracking-types:service_tracking_service_type_t
      +--ro operational-status-check? ipi-service-tracking-types:cml_service_tracking_status_check_t
      +--ro status?            ipi-service-tracking-types:cml_service_tracking_status_t

```

rpcs:

```

+---x start-service-tracking {feature-list:HAVE_ALL_PHOTONICS_CUSTOM}?
  +---w input
    +---w service-type      ipi-service-tracking-types:service_tracking_service_type_t
    +---w operational-status-check ipi-service-tracking-types:cml_service_tracking_status_check_t
    +---w service-timeout    uint16

```

notifications:

```

+---n service-tracking-status
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t
  +--ro service-type?      ipi-service-tracking-types:service_tracking_service_type_t
  +--ro operational-status-check? ipi-service-tracking-types:cml_service_tracking_status_check_t
  +--ro status?            ipi-service-tracking-types:cml_service_tracking_status_t

```

ipi-sflow-interface

augment /ipi-sflow:sampling/ipi-sflow:sflow:

```

+--rw interfaces
  +--rw interface* [name]

```

```

+--rw name      -> ../config/name
+--rw config
| +--rw name?      -> /ipi-interface:interfaces/interface/name
| +--rw enabled?    empty
| +--rw polling-interval?  uint8
| +--rw disable-collector-id*  uint8
+--ro state
| +--ro name?      -> /ipi-interface:interfaces/interface/name
| +--ro enabled?    empty
| +--ro polling-interval?  uint8
| +--ro disable-collector-id*  uint8
| +--ro polling-count?    yang:counter32
+--rw samplings
  +--rw sampling* [sampling-direction]
    +--rw sampling-direction  -> ../config/sampling-direction
    +--rw config
      | +--rw sampling-direction?  ipi-sflow-types:sflow_sampling_direction_t
      | +--rw rate?                uint32
      | +--rw max-header-size?     uint16
      | +--rw disabled?            empty
    +--ro state
      +--ro sampling-direction?    ipi-sflow-types:sflow_sampling_direction_t
      +--ro rate?                  uint32
      +--ro max-header-size?       uint16
      +--ro disabled?              empty
      +--ro sampling-status?       ipi-sflow-types:sflow_egress_ingress_t
      +--ro sampled-packet-count?  yang:counter32

```

rpcs:

```

+---x sflow-clear-statistics {feature-list:HAVE_SFLOW}?
| +---w input
|   +---w interface  string
+---x clear-dynamic-load-balance-monitor-events {feature-list:HAVE_SFLOW}?

```

ipi-sflow-ipfix

```

+--rw ipfix
  +--rw ip-flow-exporters
    | +--rw ip-flow-exporter* [exporter-name]
    |   +--rw exporter-name  -> ../config/exporter-name
    |   +--rw config
    |     | +--rw exporter-name?      string
    |     | +--rw source-if?          -> /ipi-interface:interfaces/interface/name
    |     | +--rw collector-ip?       inet:ipv4-address
    |     | +--rw collector-port?     inet:port-number
    |     | +--rw collector-vrf?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
    |     | +--rw template-id?        uint32
    |     | +--rw template-refresh-interval? uint32
    |     | +--rw samples-per-message? ipi-sflow-types:sflow_samples_per_message_t
    |     +--ro state
    |       +--ro exporter-name?      string
    |       +--ro source-if?          -> /ipi-interface:interfaces/interface/name
    |       +--ro collector-ip?       inet:ipv4-address
    |       +--ro collector-port?     inet:port-number
    |       +--ro collector-vrf?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
    |       +--ro template-id?        uint32
    |       +--ro template-refresh-interval? uint32
    |       +--ro samples-per-message? ipi-sflow-types:sflow_samples_per_message_t
  +--rw ip-flow-monitors
    | +--rw ip-flow-monitor* [monitor-name]
    |   +--rw monitor-name  -> ../config/monitor-name
    |   +--rw config
    |     | +--rw monitor-name?      string
    |     | +--rw flow-exporter?     -> /ipfix/ip-flow-exporters/ip-flow-exporter/exporter-name
    |     | +--rw sampling-rate?     uint32
    |     | +--rw observation-domain-id? uint32
    |     +--ro state
    |       +--ro monitor-name?      string
    |       +--ro flow-exporter?     -> /ipfix/ip-flow-exporters/ip-flow-exporter/exporter-name

```

```

|   +--ro sampling-rate?      uint32
|   +--ro observation-domain-id? uint32
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name  -> ../config/interface-name
    +--rw config
      | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
      | +--rw flow-monitor?   -> /ipfix/ip-flow-monitors/ip-flow-monitor/config/monitor-name
      +--ro state
        +--ro interface-name? -> /ipi-interface:interfaces/interface/name
        +--ro flow-monitor?   -> /ipfix/ip-flow-monitors/ip-flow-monitor/config/monitor-name

```

ipi-sflow

```

+--rw sampling
  +--rw sflow
    +--rw config!
      | +--rw enabled      empty
      | +--rw source-address? inet:ipv4-address
      +--ro state
        | +--ro enabled      empty
        | +--ro source-address? inet:ipv4-address
        | +--ro sflow-version? string
        | +--ro datagram-version? uint8
      +--rw collectors
        | +--rw collector* [address port collector-id]
        |   +--rw address      -> ../config/address
        |   +--rw port         -> ../config/port
        |   +--rw collector-id -> ../config/collector-id
        |   +--rw config
          | | +--rw address?      inet:ipv4-address
          | | +--rw port?         inet:port-number
          | | +--rw receiver-timeout? uint32
          | | +--rw max-datagram-size? uint16
          | | +--rw collector-id?  uint8

```

```

    | | +--rw vrf-name          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    |   +--ro state
    |   +--ro address?          inet:ipv4-address
    |   +--ro port?             inet:port-number
    |   +--ro receiver-timeout?  uint32
    |   +--ro max-datagram-size? uint16
    |   +--ro collector-id?      uint8
    |   +--ro vrf-name          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    +--rw logging {feature-list:HAVE_CUSTOM1_ACL_OR_HAVE_COPP_FILTER}?
    | +--rw config
    | | +--rw max-entries?  uint16
    | | +--ro state
    | |   +--ro max-entries?  uint16
    +--rw debug
    | +--rw config
    | | +--rw options?  ipi-sflow-types:sflow_debug_t
    | | +--ro state
    | |   +--ro options?          ipi-sflow-types:sflow_debug_t
    | |   +--ro terminal-debug-status? ipi-sflow-types:sflow_debug_t
    +--rw global
    +--rw config
    | +--rw polling-interval?  uint8
    | +--rw update-port-pvid?  empty
    +--ro state
    | +--ro polling-interval?  uint8
    | +--ro update-port-pvid?  empty
    +--rw samplings
    +--rw sampling* [sampling-direction]
    +--rw sampling-direction -> ../config/sampling-direction
    +--rw config
    | +--rw sampling-direction? ipi-sflow-types:sflow_sampling_direction_t
    | +--rw rate?               uint32
    | +--rw max-header-size?    uint16
    +--ro state
    +--ro sampling-direction? ipi-sflow-types:sflow_sampling_direction_t

```



```

+--ro rate?          uint32
+--ro max-header-size?  uint16

```

rpcs:

```

+---x sflow-clear-access-list-log-cache {feature-list:HAVE_SFLOW,feature-
list:HAVE_CUSTOM1_ACL_OR_HAVE_COPP_FILTER}?
+---x sflow-terminal-debug-on {feature-list:HAVE_SFLOW}?
| +---w input
|   +---w terminal-debug-options  ipi-sflow-types:sflow_debug_t
+---x sflow-terminal-debug-off {feature-list:HAVE_SFLOW}?
+---w input
+---w terminal-debug-options  ipi-sflow-types:sflow_debug_t

```

notifications:

```

+---n sflow-receiver-timeout-alarm-message
+--ro severity?  cml-data-types:cml_notif_severity_t
+--ro eventClass?  cml-data-types:cml_notif_class_t
+--ro message?    string

```

ipi-snmp-server-extended

```

+--rw snmp-dir
+--rw config
| +--rw include-directive?  empty
+--ro state
+--ro include-directive?  empty

```

augment /ipi-snmp:snmp/ipi-snmp-server:servers:

```

+--rw debug {feature-list:HAVE_SNMP_AGENT}?
+--rw config
| +--rw enable?  empty
+--ro state
+--ro enable?          empty
+--ro terminal-debug-status?  cml-data-types:cml_on_off_t

```

augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:

```

+--rw snmp-views {feature-list:HAVE_SNMP_AGENT}?
  +--rw snmp-view* [view-name] {feature-list:HAVE_SNMP_AGENT}?
    +--rw view-name -> ../config/view-name
    +--rw config
      | +--rw view-name? string
    +--ro state
      | +--ro view-name? string
    +--rw oid-trees
      +--rw oid-tree* [oid] {feature-list:HAVE_SNMP_AGENT}?
        +--rw oid -> ../config/oid
        +--rw config!
          | +--rw oid? string
          | +--rw filter-type ipi-snmp-server-extended-types:snmp_server_oid_tree_t
        +--ro state
          +--ro oid? string
          +--ro filter-type ipi-snmp-server-extended-types:snmp_server_oid_tree_t
augment /ipi-snmp:snmp:
+--rw engine-id {feature-list:HAVE_SNMP_V3,feature-list:HAVE_SNMP_AGENT}?
+--rw config
  | +--rw engine-id? string
+--ro state
  +--ro engine-id? string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw smux-port {feature-list:HAVE_SNMP_AGENT}?
+--rw config
  | +--rw smux-port-enable? empty
+--ro state
  +--ro smux-port-enable? empty
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw hosts {feature-list:HAVE_SNMP_AGENT}?
  +--rw host* [host-vrf-name host-name] {feature-list:HAVE_SNMP_AGENT}?
    +--rw host-vrf-name -> ../config/host-vrf-name
    +--rw host-name -> ../config/host-name
    +--rw config
      | +--rw host-vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
      | +--rw host-name? string

```

```

| +--rw snmp-version?      ipi-snmp-server-extended-types:snmp_server_version_t
| +--rw notification-type? ipi-snmp-server-extended-types:snmp_server_notification_t
| +--rw udp-port?          uint32
| +--rw (host-option)?
|   +---:(use-community)
|     | +--rw community?    -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/communities/community/
community-name
|     +---:(use-snmpv3-user)
|       | +--rw snmpv3-auth-type? ipi-snmp-server-extended-types:snmp_server_version3_auth_type_t
|       | +--rw snmpv3-user?      -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/users/user/config/user-name
|       +---:(use-host-user)
|         +--rw host-user?      string
+--ro state
+--ro host-vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
+--ro host-name?             string
+--ro snmp-version?          ipi-snmp-server-extended-types:snmp_server_version_t
+--ro notification-type?     ipi-snmp-server-extended-types:snmp_server_notification_t
+--ro udp-port?              uint32
+--ro (host-option)?
+---:(use-community)
| +--ro community?          -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/communities/community/
community-name
+---:(use-snmpv3-user)
| +--ro snmpv3-auth-type?    ipi-snmp-server-extended-types:snmp_server_version3_auth_type_t
| +--ro snmpv3-user?        -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/users/user/config/user-name
+---:(use-host-user)
+--ro host-user?            string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw users {feature-list:HAVE_SNMP_AGENT}?
+--rw user* [user-name] {feature-list:HAVE_SNMP_AGENT,feature-list:HAVE_SNMP_V3}?
+--rw user-name  -> ../config/user-name
+--rw config
| +--rw user-name?      string
| +--rw user-type?      ipi-snmp-server-extended-types:snmp_server_group_name_t
| +--rw user-group?     string
| +--rw encryption-type? ipi-snmp-server-extended-types:snmp_server_key_type_t

```

```

| +--rw authentication-type?      ipi-snmp-server-extended-types:snmp_server_auth_t
| +--rw authentication-password?  string
| +--rw privilege-type?          ipi-snmp-server-extended-types:snmp_server_priv_t
| +--rw privilege-password?      string
+--ro state
  +--ro user-name?               string
  +--ro user-type?               ipi-snmp-server-extended-types:snmp_server_group_name_t
  +--ro user-group?              string
  +--ro encryption-type?         ipi-snmp-server-extended-types:snmp_server_key_type_t
  +--ro authentication-type?     ipi-snmp-server-extended-types:snmp_server_auth_t
  +--ro authentication-password? string
  +--ro privilege-type?          ipi-snmp-server-extended-types:snmp_server_priv_t
  +--ro privilege-password?      string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw contexts {feature-list:HAVE_SNMP_AGENT}?
  +--rw context* [context-name]
    +--rw context-name  -> ../config/context-name
    +--rw config
      | +--rw context-name? string
    +--ro state
      +--ro context-name? string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw communities {feature-list:HAVE_SNMP_AGENT}?
  +--rw community* [community-name] {feature-list:HAVE_SNMP_AGENT}?
    +--rw community-name  -> ../config/community-name
    +--rw config
      | +--rw community-name? string
      | +--rw acl-name?        -> /ipi-acl:acl/standard-acl-sets/standard-acl-set/name
      | +--rw community-view-name? -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/snmp-views/snmp-view/
view-name
      | +--rw version?         ipi-snmp-server-extended-types:snmp_server_view_version_t
      | +--rw access?          ipi-snmp-server-extended-types:snmp_server_access_t
      | +--rw (community-option)?
      |   +--:(use-group)
      |     | +--rw snmp-group? ipi-snmp-server-extended-types:snmp_server_group_t
      |     +--:(use-access)
      |       +--rw access-privileges? ipi-snmp-server-extended-types:snmp_server_access_t

```

```

    +--ro state
    | +--ro community-name?      string
    | +--ro acl-name?           -> /ipi-acl:acl/standard-acl-sets/standard-acl-set/name
    | +--ro community-view-name? -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/snmp-views/snmp-view/
view-name
    | +--ro version?            ipi-snmp-server-extended-types:snmp_server_view_version_t
    | +--ro access?            ipi-snmp-server-extended-types:snmp_server_access_t
    | +--ro (community-option)?
    |   +--:(use-group)
    |     | +--ro snmp-group?    ipi-snmp-server-extended-types:snmp_server_group_t
    |     +--:(use-access)
    |       +--ro access-privileges? ipi-snmp-server-extended-types:snmp_server_access_t
    +--rw community-context-mapping
    +--rw config
    | +--rw community-context?  string
    | +--rw community-user?    string
    +--ro state
    +--ro community-context?  string
    +--ro community-user?    string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
+--rw server-groups {feature-list:HAVE_SNMP_AGENT}?
+--rw server-group* [group-name] {feature-list:HAVE_SNMP_AGENT}?
+--rw group-name    -> ../config/group-name
+--rw config
| +--rw group-name?      string
| +--rw group-version?   ipi-snmp-server-extended-types:snmp_server_version_t
| +--rw snmpv3-group-auth-type? ipi-snmp-server-extended-types:snmp_v3_server_group_auth_type_t
| +--rw context*        ipi-snmp-server-extended-types:snmp_server_context_name_t
+--ro state
+--ro group-name?        string
+--ro group-version?     ipi-snmp-server-extended-types:snmp_server_version_t
+--ro snmpv3-group-auth-type? ipi-snmp-server-extended-types:snmp_v3_server_group_auth_type_t
+--ro context*          ipi-snmp-server-extended-types:snmp_server_context_name_t
augment /ipi-snmp:snmp:
+--ro statistics {feature-list:HAVE_SNMP_AGENT}?
+--ro state
+--ro engine-id?  cml-data-types:cml_line_t

```

augment /ipi-snmp:snmp:

```

+--ro default-global-values {feature-list:HAVE_SNMP_AGENT}?
  +--ro state
    +--ro system-default-contact? ipi-snmp-server-extended-types:cml_line_without_pattern_t {feature-
list:HAVE_SNMP_AGENT}?
    +--ro system-default-location? ipi-snmp-server-extended-types:cml_line_without_pattern_t {feature-
list:HAVE_SNMP_AGENT}?

```

rpcs:

```

+---x snmp-server-terminal-debug-on {feature-list:HAVE_HOSTPD}?
+---x snmp-server-terminal-debug-off {feature-list:HAVE_HOSTPD}?

```

ipi-snmp-server

```

+--rw custom
  +--rw config
    | +--rw ent-ipi-iftable? empty {feature-list:HAVE_SNMP_AGENT}?
  +--ro state
    +--ro ent-ipi-iftable? empty {feature-list:HAVE_SNMP_AGENT}?

```

augment /ipi-snmp:snmp:

```

+--rw servers {feature-list:HAVE_SNMP_AGENT}?
  +--rw server* [vrf-name]
    | +--rw vrf-name -> ../config/vrf-name
    | +--rw config!
    | | +--rw vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    | | +--rw enabled empty
    | +--ro state
    | | +--ro vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    | | +--ro enabled empty
    | +--rw global
    | +--rw config
    | | +--rw system-contact? cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
    | | +--rw system-location? cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
    | | +--rw tcp-session-enabled? empty {feature-list:HAVE_SNMP_AGENT}?

```

```

|   +--ro state
|   +--ro system-contact?    cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|   +--ro system-location?    cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|   +--ro tcp-session-enabled? empty {feature-list:HAVE_SNMP_AGENT}?
+--rw default-instance
  +--rw config
  | +--rw disable-default-instance? empty
  +--ro state
    +--ro disable-default-instance? empty

```

ipi-snmp

```

+--rw snmp {feature-list:HAVE_SNMP_AGENT}?
  +--rw server-traps
    +--rw config
      | +--rw enable-traps?      ipi-snmp-types:snmp_trap_protocols
      | +--rw enable-link-down-trap? boolean
      | +--rw enable-link-up-trap? boolean
      | +--rw include-interface-name? empty
    +--ro state
      | +--ro enable-traps?      ipi-snmp-types:snmp_trap_protocols
      | +--ro enable-link-down-trap? boolean
      | +--ro enable-link-up-trap? boolean
      | +--ro include-interface-name? empty
    +--rw trap-cache
      +--rw config!
        | +--rw enable-trap-cache empty {feature-list:HAVE_SNMP_AGENT}?
        | +--rw timeout?          int8
        | +--rw disable-ping?     empty
        | +--rw max-count?        int16
      +--ro state
        +--ro enable-trap-cache empty {feature-list:HAVE_SNMP_AGENT}?
        +--ro timeout?          int8
        +--ro disable-ping?     empty
        +--ro max-count?        int16

```

rpcs:

```
+---x snmp-agentx-enable-terminal-debugging {feature-list:HAVE_AGENTX}?
| +---w input
|   +---w debug   ipi-snmp-types:snmp_agentx_debug_type_t
+---x snmp-agentx-disable-terminal-debugging {feature-list:HAVE_AGENTX}?
  +---w input
    +---w debug   ipi-snmp-types:snmp_agentx_debug_type_t
```

ipi-source-interface

```
+--rw source-interface {feature-list:HAVE_HOSTPD}?
  +--rw address-family-ipv4
    | +--rw source-nat-mappings
    |   +--rw source-nat-mapping* [interface-name protocol-type port-number vrf-name]
    |     +--rw interface-name  -> ../config/interface-name
    |     +--rw protocol-type    -> ../config/protocol-type
    |     +--rw port-number      -> ../config/port-number
    |     +--rw vrf-name         -> ../config/vrf-name
    |     +--rw config
    |       | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
    |       | +--rw protocol-type?  ipi-source-interface-types:src_intf_proto_types_t
    |       | +--rw port-number?    ipi-source-interface-types:src_intf_port_number_t
    |       | +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |       {feature-list:HAVE_VRF}?
    |         +--ro state
    |         +--ro interface-name? -> /ipi-interface:interfaces/interface/name
    |         +--ro protocol-type?  ipi-source-interface-types:src_intf_proto_types_t
    |         +--ro port-number?    ipi-source-interface-types:src_intf_port_number_t
    |         +--ro vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |         {feature-list:HAVE_VRF}?
    |           +--ro address?      inet:ip-address
    |           +--ro status?       ipi-source-interface-types:src_intf_status_t
    +--rw address-family-ipv6 {feature-list:HAVE_IPV6}?
      +--rw source-nat-mappings
```



```

+--rw source-nat-mapping* [interface-name protocol-type port-number vrf-name]
  +--rw interface-name  -> ../config/interface-name
  +--rw protocol-type    -> ../config/protocol-type
  +--rw port-number      -> ../config/port-number
  +--rw vrf-name         -> ../config/vrf-name
  +--rw config
    | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
    | +--rw protocol-type?  ipi-source-interface-types:src_intf_proto_types_t
    | +--rw port-number?    ipi-source-interface-types:src_intf_port_number_t
    | +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  {feature-list:HAVE_VRF}?
  +--ro state
    +--ro interface-name? -> /ipi-interface:interfaces/interface/name
    +--ro protocol-type?  ipi-source-interface-types:src_intf_proto_types_t
    +--ro port-number?    ipi-source-interface-types:src_intf_port_number_t
    +--ro vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  {feature-list:HAVE_VRF}?
  +--ro address?         inet:ip-address
  +--ro status?          ipi-source-interface-types:src_intf_status_t

```

ipi-ssh

```

+--rw ssh-server
  +--rw debug
    | +--rw config
    | | +--rw enable?  empty
    | +--ro state
    | +--ro enable?    empty
    | +--ro terminal-debug-status? cml-data-types:cml_on_off_t
  +--rw vrfs
    | +--rw vrf* [vrf-name]
    | +--rw vrf-name      -> ../config/vrf-name
    | +--rw config

```

```

| | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:config/vrf-name
| | +--rw enable?       empty {feature-list:HAVE_SSH_SERVER}?
| | +--rw port?         uint32 {feature-list:HAVE_SSH_SERVER}?
| | +--rw session-limit? uint8 {feature-list:HAVE_SSH_SERVER}?
| | +--rw max-login-attempts? uint8 {feature-list:HAVE_SSH_SERVER}?
| | +--rw default-algorithm? empty
| +--ro state
| | +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:config/vrf-name
| | +--ro enable?       empty {feature-list:HAVE_SSH_SERVER}?
| | +--ro port?         uint32 {feature-list:HAVE_SSH_SERVER}?
| | +--ro session-limit? uint8 {feature-list:HAVE_SSH_SERVER}?
| | +--ro max-login-attempts? uint8 {feature-list:HAVE_SSH_SERVER}?
| | +--ro default-algorithm? empty
| +--rw encryption-algorithms {feature-list:HAVE_SSH_SERVER}?
| | +--rw config
| | | +--rw aes128-ctr?   empty
| | | +--rw aes192-ctr?   empty
| | | +--rw aes256-ctr?   empty
| | | +--rw aes128-cbc?   empty
| | | +--rw aes192-cbc?   empty
| | | +--rw aes256-cbc?   empty
| | | +--rw triple-des-cbc? empty
| | | +--rw aes128-gcm?    empty
| | | +--rw aes256-gcm?    empty
| | | +--rw chacha20-poly1305? empty
| | +--ro state
| | | +--ro aes128-ctr?   empty
| | | +--ro aes192-ctr?   empty
| | | +--ro aes256-ctr?   empty
| | | +--ro aes128-cbc?   empty
| | | +--ro aes192-cbc?   empty
| | | +--ro aes256-cbc?   empty
| | | +--ro triple-des-cbc? empty
| | | +--ro aes128-gcm?    empty
| | | +--ro aes256-gcm?    empty
| | | +--ro chacha20-poly1305? empty

```

```

|   +--rw kex-algorithms {feature-list:HAVE_SSH_SERVER}?
|   |   +--rw config
|   |   |   +--rw diffie-hellman-group1-sha1?          empty
|   |   |   +--rw diffie-hellman-group14-sha1?         empty
|   |   |   +--rw diffie-hellman-group14-sha256?       empty
|   |   |   +--rw diffie-hellman-group16-sha512?       empty
|   |   |   +--rw diffie-hellman-group18-sha512?       empty
|   |   |   +--rw diffie-hellman-group-exchange-sha1?   empty
|   |   |   +--rw diffie-hellman-group-exchange-sha256? empty
|   |   |   +--rw ecdh-sha2-nistp256?                  empty
|   |   |   +--rw ecdh-sha2-nistp384?                  empty
|   |   |   +--rw ecdh-sha2-nistp521?                  empty
|   |   |   +--rw curve25519-sha256?                   empty
|   |   |   +--rw curve25519-sha256-libssh-org?        empty
|   |   |   +--rw sntrup761x25519-sha512?              empty
|   |   |   +--rw sntrup761x25519-sha512-openssh?      empty
|   |   +--ro state
|   |   |   +--ro diffie-hellman-group1-sha1?          empty
|   |   |   +--ro diffie-hellman-group14-sha1?         empty
|   |   |   +--ro diffie-hellman-group14-sha256?       empty
|   |   |   +--ro diffie-hellman-group16-sha512?       empty
|   |   |   +--ro diffie-hellman-group18-sha512?       empty
|   |   |   +--ro diffie-hellman-group-exchange-sha1?   empty
|   |   |   +--ro diffie-hellman-group-exchange-sha256? empty
|   |   |   +--ro ecdh-sha2-nistp256?                  empty
|   |   |   +--ro ecdh-sha2-nistp384?                  empty
|   |   |   +--ro ecdh-sha2-nistp521?                  empty
|   |   |   +--ro curve25519-sha256?                   empty
|   |   |   +--ro curve25519-sha256-libssh-org?        empty
|   |   |   +--ro sntrup761x25519-sha512?              empty
|   |   |   +--ro sntrup761x25519-sha512-openssh?      empty
|   +--rw mac-algorithms {feature-list:HAVE_SSH_SERVER}?
|   |   +--rw config
|   |   |   +--rw hmac-sha1?          empty
|   |   |   +--rw hmac-sha1-96?      empty
|   |   |   +--rw hmac-sha2-256?     empty

```

```

| | | +--rw hmac-sha2-512?    empty
| | | +--rw hmac-md5?        empty
| | | +--rw hmac-md5-96?     empty
| | | +--rw umac-64?         empty
| | | +--rw umac-128?        empty
| | | +--rw hmac-sha1-etm?    empty
| | | +--rw hmac-sha1-96-etm? empty
| | | +--rw hmac-sha2-256-etm? empty
| | | +--rw hmac-sha2-512-etm? empty
| | | +--rw hmac-md5-etm?     empty
| | | +--rw hmac-md5-96-etm?  empty
| | | +--rw umac-64-etm?      empty
| | | +--rw umac-128-etm?     empty
| | +--ro state
| |   +--ro hmac-sha1?        empty
| |   +--ro hmac-sha1-96?     empty
| |   +--ro hmac-sha2-256?     empty
| |   +--ro hmac-sha2-512?     empty
| |   +--ro hmac-md5?         empty
| |   +--ro hmac-md5-96?      empty
| |   +--ro umac-64?          empty
| |   +--ro umac-128?         empty
| |   +--ro hmac-sha1-etm?     empty
| |   +--ro hmac-sha1-96-etm? empty
| |   +--ro hmac-sha2-256-etm? empty
| |   +--ro hmac-sha2-512-etm? empty
| |   +--ro hmac-md5-etm?      empty
| |   +--ro hmac-md5-96-etm?   empty
| |   +--ro umac-64-etm?       empty
| |   +--ro umac-128-etm?      empty
| +--rw host-key-algorithms {feature-list:HAVE_SSH_SERVER}?
|   +--rw config
|     | +--rw ssh-ed25519? empty
|     | +--rw ssh-rsa?    empty
|     +--ro state
|       +--ro ssh-ed25519? empty

```

```

|      +--ro ssh-rsa?      empty
+--rw default-instance {feature-list:HAVE_SSH_SERVER}?
  +--rw config
    | +--rw disable-default-instance?  empty {feature-list:HAVE_SSH_SERVER}?
    +--ro state
      +--ro disable-default-instance?  empty {feature-list:HAVE_SSH_SERVER}?

```

augment /ipi-user-management:user-management/ipi-user-management:users/ipi-user-management:user:

```

+--rw ssh-keys
  +--rw config
    | +--rw public-key*  ipi-ssh-types:ssh_public_key_t
  +--ro state
    +--ro public-key*    ipi-ssh-types:ssh_public_key_t
    +--ro rsa-key?       ipi-ssh-types:ssh_public_key_t
    +--ro dsa-key?       ipi-ssh-types:ssh_public_key_t
    +--ro fingerprint-rsa? ipi-ssh-types:ssh_public_key_t
    +--ro fingerprint-dsa? ipi-ssh-types:ssh_public_key_t

```

rpcs:

```

+---x ssh-terminal-debug-on {feature-list:HAVE_HOSTPD}?
+---x ssh-terminal-debug-off {feature-list:HAVE_HOSTPD}?
+---x ssh-clear-hosts {feature-list:HAVE_HOSTPD}?
+---x ssh-generate-server-dsa-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w vrf-name?  string
|   +---w force?     boolean
+---x ssh-generate-server-rsa-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w length?    uint32
|   +---w vrf-name?  string
|   +---w force?     boolean
+---x ssh-generate-server-ecdsa-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w length?    ipi-ssh-types:ssh_ecdsa_key_len_t
|   +---w vrf-name?  string
|   +---w force?     boolean

```

```

+---x ssh-generate-server-ed25519-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w vrf-name?  string
|   +---w force?    boolean
+---x ssh-clear-server-keys {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w type?      ipi-ssh-types:ssh_host_key_type_t
|   +---w vrf-name?  string
+---x ssh-generate-user-rsa-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w user-name  string
|   +---w length?    uint32
|   +---w force?     boolean
+---x ssh-generate-user-dsa-key {feature-list:HAVE_SSH_SERVER}?
| +---w input
|   +---w user-name  string
|   +---w force?     boolean
+---x ssh-clear-user-keys {feature-list:HAVE_SSH_SERVER}?
  +---w input
    +---w user-name  string

```

ipi-streaming-telemetry

```

+--rw telemetry-system
  +--rw global
  | +--rw config
  | | +--rw config-maximum-subscribe-paths?  uint32
  | | +--rw config-minimum-sample-interval?  uint32
  | +--ro state
  |   +--ro config-maximum-subscribe-paths?  uint32
  |   +--ro config-minimum-sample-interval?  uint32
  |   +--ro maximum-subscribe-paths?         uint32
  |   +--ro minimum-sample-interval?         uint32
+--rw vrfs {feature-list:HAVE_VRF}?
  | +--rw vrf* [vrf-name]

```

```

|   +--rw vrf-name          -> ../config/vrf-name
|   +--rw config
|   |   +--rw vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|   +--ro state
|   |   +--ro vrf-name? -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|   +--rw streaming-telemetry
|   |   +--rw config!
|   |   |   +--rw feature-enabled    empty
|   |   |   +--rw tls-port?         uint32
|   |   |   +--rw insecure-tls?     empty
|   |   |   +--rw non-tls-port?     uint32
|   |   +--ro state
|   |   |   +--ro feature-enabled      empty
|   |   |   +--ro tls-port?           uint32
|   |   |   +--ro insecure-tls?       empty
|   |   |   +--ro non-tls-port?       uint32
|   |   |   +--ro platform-type?      ipi-streaming-telemetry-types:cml_telemetry_platform_type_t
|   |   |   +--ro default-retry-interval?  uint8
|   |   |   +--ro active-sensor-paths?   uint8
|   |   |   +--ro active-dial-in-sensor-paths? uint8
|   |   |   +--ro active-dial-out-sensor-paths? uint8
|   |   +--rw retry
|   |   |   +--rw config
|   |   |   |   +--rw retry-interval? uint32
|   |   |   +--ro state
|   |   |   |   +--ro retry-interval? uint32
|   +--rw subscriptions
|   |   +--ro dynamic-subscriptions
|   |   |   +--ro dynamic-subscription* [id]
|   |   |   |   +--ro id          -> ../state/id
|   |   |   |   +--ro state
|   |   |   |   |   +--ro id?          uint64
|   |   |   |   |   +--ro client-address?  string
|   |   |   |   |   +--ro sample-interval?  uint64
|   |   |   |   |   +--ro stream-mode?      ipi-streaming-telemetry-types:cml_streaming_types_t

```

```

| | | | +--ro heartbeat-interval? uint64
| | | | +--ro stream-type?      ipi-streaming-telemetry-types:cml_stream_mode_types_t
| | | | +--ro encoding?        ipi-streaming-telemetry-types:cml_data_encode_t
| | | +--ro sensor-paths
| | |   +--ro sensor-path* [path]
| | |     +--ro path    -> ../state/path
| | |     +--ro state
| | |     +--ro path?   string
| | +--rw persistent-subscriptions
| |   +--rw persistent-subscription* [name]
| |     +--rw name          -> ../config/name
| |     +--rw config
| |       | +--rw name?     string
| |       | +--rw encoding? ipi-streaming-telemetry-types:cml_data_encode_t
| |       +--ro state
| |       | +--ro name?      string
| |       | +--ro encoding?  ipi-streaming-telemetry-types:cml_data_encode_t
| |       | +--ro id?        uint64
| |       | +--ro subscription-status? ipi-streaming-telemetry-types:cml_telemetry_status_t
| |       | +--ro inactive-cause?  string
| |       | +--ro protocol?       ipi-streaming-telemetry-types:cml_telemetry_protocol_t
| |     +--rw sensor-profiles
| |       | +--rw sensor-profile* [sensor-group]
| |       |   +--rw sensor-group -> ../config/sensor-group
| |       |   +--rw config
| |       |     | +--rw sensor-group? -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
| |       |     | +--rw sample-interval uint64
| |       |     +--ro state
| |       |       +--ro sensor-group? -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
| |       |       +--ro sample-interval uint64
| |     +--rw destination-groups
| |       +--rw destination-group* [group-id]
| |       +--rw group-id -> ../config/group-id
| |       +--rw config
| |         | +--rw group-id? -> /telemetry-system/vrfs/vrf/destination-groups/destination-group/group-id
| |       +--ro state

```

```

| |      +--ro group-id?  -> /telemetry-system/vrfs/vrf/destination-groups/destination-group/group-id
|   +--rw sensor-groups
| |   +--rw sensor-group* [sensor-group-id]
| |     +--rw sensor-group-id  -> ../config/sensor-group-id
| |     +--rw config
| |       | +--rw sensor-group-id?  string
| |       +--ro state
| |       | +--ro sensor-group-id?  string
| |       +--rw sensor-paths
| |         +--rw sensor-path* [path]
| |           +--rw path    -> ../config/path
| |           +--rw config
| |             | +--rw path?  string
| |             +--ro state
| |             +--ro path?  string
|   +--rw destination-groups
|     +--rw destination-group* [group-id]
|       +--rw group-id    -> ../config/group-id
|       +--rw config
|         | +--rw group-id?  string
|         +--ro state
|         | +--ro group-id?  string
|       +--rw destinations
|         +--rw destination* [destination-address destination-port]
|           +--rw destination-address  -> ../config/destination-address
|           +--rw destination-port    -> ../config/destination-port
|           +--rw config
|             | +--rw destination-address?  inet:ipv4-address
|             | +--rw destination-port?    uint16
|             +--ro state
|             +--ro destination-address?  inet:ipv4-address
|             +--ro destination-port?    uint16
+--rw debug
| +--rw config!
| | +--rw gnmi-debug    empty
| | +--rw gnmi-severity?  ipi-streaming-telemetry-types:cml_gnmi_debug_severity_t

```

```

| +--ro state!
|   +--ro gnmi-debug      empty
|   +--ro gnmi-severity?  ipi-streaming-telemetry-types:cml_gnmi_debug_severity_t
+--rw cpu-monitoring
  +--rw config!
  |   +--rw enable-cpu-limit  ipi-streaming-telemetry-types:cml_telemetry_cpu_monitoring_t
  |   +--rw suppress-threshold? uint16
  +--ro state
  |   +--ro enable-cpu-limit  ipi-streaming-telemetry-types:cml_telemetry_cpu_monitoring_t
  |   +--ro suppress-threshold? uint16
  +--rw no-suppress-grps
    +--rw no-suppress-grp* [vrf-name sensor-group-id] {feature-list:HAVE_VRF}?
      +--rw vrf-name      -> ../config/vrf-name
      +--rw sensor-group-id -> ../config/sensor-group-id
      +--rw config!
      |   +--rw vrf-name?      -> /telemetry-system/vrfs/vrf/vrf-name {feature-list:HAVE_VRF}?
      |   +--rw sensor-group-id? -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
      +--rw state!
      |   +--rw vrf-name?      -> /telemetry-system/vrfs/vrf/vrf-name {feature-list:HAVE_VRF}?
      |   +--rw sensor-group-id? -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id

```

ipi-synce

```

+--rw synce {feature-list:HAVE_SYNCED}?
  +--rw globals
  |   +--rw config!
  |   |   +--rw enable          empty
  |   |   +--rw network-option? ipi-synce-types:synce_sync_option_t
  |   |   +--rw clock-selection-mode? ipi-synce-types:synce_clk_selection_mode_t
  |   |   +--rw dpll3-select-10mhz-in? empty
  |   |   +--rw holdover-timer?  uint16
  |   +--ro state
  |   |   +--ro enable          empty
  |   |   +--ro network-option? ipi-synce-types:synce_sync_option_t
  |   |   +--ro clock-selection-mode? ipi-synce-types:synce_clk_selection_mode_t

```

```

|  +--ro dp1l3-select-10mhz-in?  empty
|  +--ro holdover-timer?         uint16
|  +--ro equipment-clock?        string
|  +--ro locked-interface?       string
|  +--ro esmc-state?             ipi-synce-types:synce_esmc_state_t
|  +--ro is-source-selected?     ipi-synce-types:synce_is_src_selected_t
|  +--ro quality-level?          string
|  +--ro current-clock-state?     ipi-synce-types:synce_clock_state_t
|  +--ro dp1l-clock-state?       ipi-synce-types:synce_clock_state_t
|  +--ro state-duration?         ipi-synce-types:synce_uptime_t
|  +--ro selected-clock-src-id?   uint32
+--rw interfaces
|  +--rw interface* [name]
|  +--rw name      -> ../config/name
|  +--rw config!
|  |  +--rw name?          -> /ipi-interface:interfaces/interface/name
|  |  +--rw enable         empty
|  |  +--rw synchronous-mode? ipi-synce-types:synce_mode_option_t
|  |  +--rw input-source-priority? uint8
|  |  +--rw is-output-source?  boolean
|  |  +--rw wait-to-restore-timer? uint8
|  |  +--rw vlan-id?         uint16
|  |  +--rw hold-off-timer?   uint16
|  |  +--rw quality-level?    string
|  |  +--rw clock-source-id?  uint8
|  |  +--rw auto-neg-mode?    ipi-synce-types:synce_autoneg_mode_t
|  +--ro state
|  +--ro name?              -> /ipi-interface:interfaces/interface/name
|  +--ro enable             empty
|  +--ro synchronous-mode?   ipi-synce-types:synce_mode_option_t
|  +--ro input-source-priority? uint8
|  +--ro is-output-source?   boolean
|  +--ro wait-to-restore-timer? uint8
|  +--ro vlan-id?           uint16
|  +--ro hold-off-timer?     uint16
|  +--ro quality-level?      string

```

```

|   +--ro clock-source-id?          uint8
|   +--ro auto-neg-mode?            ipi-synce-types:synce_autoneg_mode_t
|   +--ro esmc-state?               ipi-synce-types:synce_esmc_state_t
|   +--ro is-source-selected?       ipi-synce-types:synce_is_src_selected_t
|   +--ro esmc-received?            uint64
|   +--ro esmc-sent?                uint64
|   +--ro quality-level-received-esmc? string
|   +--ro operational-quality-level? string
|   +--ro configured-quality-level? string
|   +--ro interface-config-priority? uint8
|   +--ro signal-fail?              ipi-synce-types:synce_is_sf_t
|   +--ro external-command?         ipi-synce-types:synce_external_cmds_t
|   +--ro wtr-timer-status?         ipi-synce-types:synce_is_timer_running_t
|   +--ro hold-off-timer-status?    ipi-synce-types:synce_is_timer_running_t
|   +--ro link-state?              ipi-synce-types:synce_link_state_t
+--rw external-interfaces
| +--rw external-interface* [external-synce-interface]
|   +--rw external-synce-interface -> ../config/external-synce-interface
|   +--rw config
|     | +--rw external-synce-interface? ipi-synce-types:synce_external_interface_t
|     | +--rw synchronous-mode?        ipi-synce-types:synce_mode_option_t
|     | +--rw input-source-priority?    uint8
|     | +--rw wait-to-restore-timer?    uint8
|     | +--rw hold-off-timer?           uint16
|     | +--rw quality-level?            string
|     +--ro state
|       +--ro external-synce-interface? ipi-synce-types:synce_external_interface_t
|       +--ro synchronous-mode?        ipi-synce-types:synce_mode_option_t
|       +--ro input-source-priority?    uint8
|       +--ro wait-to-restore-timer?    uint8
|       +--ro hold-off-timer?           uint16
|       +--ro quality-level?            string
|       +--ro esmc-state?               ipi-synce-types:synce_esmc_state_t
|       +--ro is-source-selected?       ipi-synce-types:synce_is_src_selected_t
|       +--ro esmc-received?            uint64
|       +--ro esmc-sent?                uint64

```

```

|   +--ro quality-level-received-esmc?  string
|   +--ro operational-quality-level?    string
|   +--ro configured-quality-level?     string
|   +--ro interface-config-priority?    uint8
|   +--ro signal-fail?                  ipi-synce-types:synce_is_sf_t
|   +--ro external-command?             ipi-synce-types:synce_external_cmds_t
|   +--ro wtr-timer-status?             ipi-synce-types:synce_is_timer_running_t
|   +--ro hold-off-timer-status?        ipi-synce-types:synce_is_timer_running_t
|   +--ro link-state?                   ipi-synce-types:synce_link_state_t
+--rw debug
  +--rw config
  | +--rw options? ipi-synce-types:synce_debug_t
  +--ro state
    +--ro options? ipi-synce-types:synce_debug_t
    +--ro terminal-debug-status? ipi-synce-types:synce_debug_t

```

rpcs:

```

+---x clear-synce-stats {feature-list:HAVE_SYNCED}?
| +---w input
|   +---w interface-name  string
+---x synce-terminal-debug-on {feature-list:HAVE_SYNCED}?
| +---w input
|   +---w debug-options  ipi-synce-types:synce_debug_t
+---x synce-terminal-debug-off {feature-list:HAVE_SYNCED}?
  +---w input
    +---w debug-options  ipi-synce-types:synce_debug_t

```

notifications:

```

+---n synce-clock-status {feature-list:HAVE_SYNCED}?
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?   string
+---n synce-clock-state-change-notify {feature-list:HAVE_SYNCED}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro previous-clock-state? ipi-synce-types:synce_clock_state_t

```

```

| +--ro current-clock-state?  ipi-synce-types:synce_clock_state_t
+---n synce-clock-state-transition-locked-interface {feature-list:HAVE_SYNCED}?
  +--ro severity?             cml-data-types:cml_notif_severity_t
  +--ro eventClass?           cml-data-types:cml_notif_class_t
  +--ro previous-clock-state?  ipi-synce-types:synce_clock_state_t
  +--ro current-clock-state?   ipi-synce-types:synce_clock_state_t
  +--ro locked-interface?     string

```

ipi-sys-mgmt

rpcs:

```

+---x sys-shutdown {feature-list:HAVE_PSERVD}?
  +---w input
    +---w save-config  boolean

```

ipi-sys-notifications

notifications:

```

+---n lock-forcibly-released
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?   string
+---n config-sync-completion-status
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?   string
+---n config-change
| +--ro message?  string
+---n system-shutdown-or-reload
| +--ro severity?  cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?   string
+---n get-warning-notification

```

```

+--ro severity?  cml-data-types:cml_notif_severity_t
+--ro eventClass? cml-data-types:cml_notif_class_t
+--ro message?   string

```

ipi-sys-service-mgmt

```

+--rw system-backups
  +--rw system-backup
    +--rw config
    | +--rw system-backup-content? ipi-sys-service-mgmt-types:system_backup_content_type_t
    +--ro state
      +--ro system-backup-content? ipi-sys-service-mgmt-types:system_backup_content_type_t

```

ipi-sys-update

```

+--rw system-update
  +--rw docker
    | +--ro images
    | | +--ro image* [name]
    | |   +--ro name    -> ../state/name
    | |   +--ro state
    | |     +--ro name?  string
    | +--ro info
    | | +--ro state
    | |   +--ro version? string
    | |   +--ro status?  string
    | +--ro download-status
    |   +--ro state
    |     +--ro inprogress? boolean
  +--ro installers
    | +--ro installer* [name]
    |   +--ro name    -> ../state/name
    |   +--ro state

```

```

|   +--ro name?  string
+--ro system-update-details
  +--ro state
    +--ro previous-version?    cml-data-types:cml_line_t
    +--ro current-version?     cml-data-types:cml_line_t
    +--ro last-upgraded-time?   cml-data-types:cml_line_t
    +--ro auto-rollback-end-time? cml-data-types:cml_line_t

rpcs:
+---x sys-update-install {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w installer-name      string
|   +---w ignore-feature-check  boolean
+---x sys-update-uninstall {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
+---x sys-update-get {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w source-interface    string
|   +---w source-ip?          inet:ip-address
|   +---w url                  string
|   +---w known-hosts-add?    boolean
+---x sys-update-delete {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w image-name          string
+---x sys-update-cancel-download {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
+---x sys-container-install {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w type                ipi-sys-update-types:system_container_type_t
|   +---w upgrade-type        ipi-sys-update-types:system_container_upgrade_t
|   +---w file                 string
+---x sys-container-uninstall {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w type                ipi-sys-update-types:system_container_type_t
|   +---w un-install          boolean
+---x sys-container-boot {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
|   +---w type                ipi-sys-update-types:system_container_type_t

```

```
| +---w boot-type    ipi-sys-update-types:system_container_boot_t
+---x sys-container-get {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
| +---w type          ipi-sys-update-types:system_container_type_t
| +---w url           string
| +---w source-interface string
+---x sys-container-remove {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
| +---w type    ipi-sys-update-types:system_container_type_t
| +---w file    string
+---x sys-container-verify {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
| +---w input
| +---w type    ipi-sys-update-types:system_container_type_t
| +---w image    string
| +---w signature string
+---x sys-container-cancel-download {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
```

notifications:

```
+---n sys-update-installation-status
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n sys-update-download-status
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass? cml-data-types:cml_notif_class_t
| +--ro message?    string
+---n sys-container-download-status
  +--ro severity?    cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro message?    string
```

ipi-system

```
+--rw system-info
  +--rw config
  | +--rw hostname? string
```

```

+--ro state
| +--ro hostname?      string
| +--ro software-version?  string
| +--ro software-build-number?  string {feature-list:BUILD_PRODUCT_VERSION,feature-list:BUILD_NUMBER}?
| +--ro system-uptime?    system_time_duration
| +--ro boot-time?        uint64
| +--ro current-datetime?  yang:date-and-time
+--rw sysrq
| +--rw config
| | +--rw disable?  boolean
| +--ro state
|   +--ro disable?  boolean
+--rw clock
  +--rw config
  | +--rw timezone-name?  system_timezone_name_t
  +--ro state
    +--ro timezone-name?  system_timezone_name_t

```

ipi-tacacs

```

+--rw tacacs
  +--rw vrfs
  | +--rw vrf* [vrf-name] {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA,feature-list:HAVE_TACACS_CLIENT}?
  |   +--rw vrf-name      -> ../config/vrf-name
  |   +--rw config
  |     | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |     | +--rw feature-enable  empty
  |     | +--rw timeout?        uint8
  |     | +--rw key-type?       ipi-tacacs-types:tacacs_hostp_key_type_t
  |     | +--rw secret-key-string?  string
  |     +--ro state
  |       | +--ro vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |       | +--ro feature-enable  empty
  |       | +--ro timeout?        uint8
  |       | +--ro key-type?       ipi-tacacs-types:tacacs_hostp_key_type_t

```

```

| | +--ro secret-key-string? string
| +--rw remote-servers
|   +--rw server* [host-address] {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA,feature-
list:HAVE_TACACS_CLIENT}?
|     +--rw host-address -> ../config/host-address
|     +--rw config
|       | +--rw host-address? cml-data-types:cml_hostname_t
|       | +--rw sequence-number uint8
|       | +--rw port? uint32
|       | +--rw timeout? uint32
|       | +--rw key-type? ipi-tacacs-types:tacacs_hostp_key_type_t
|       | +--rw secret-key-string? string
|       +--ro state
|         +--ro host-address? cml-data-types:cml_hostname_t
|         +--ro sequence-number uint8
|         +--ro port? uint32
|         +--ro timeout? uint32
|         +--ro key-type? ipi-tacacs-types:tacacs_hostp_key_type_t
|         +--ro secret-key-string? string
|         +--ro last-successful-authentication-time? yang:date-and-time
|         +--ro counters
|           +--ro successful-authentications? yang:counter64
|           +--ro authentication-failures? yang:counter64
|           +--ro connection-failures? yang:counter64
+--rw debug
  +--rw config
  | +--rw enable? empty
  +--ro state
    +--ro enable? empty
    +--ro terminal-debug-status? cml-data-types:cml_on_off_t

rpcs:
+---x clear-all-tacacs-server-counters {feature-list:HAVE_HOSTPD}?
| +---w input
|   +---w vrf-name string
+---x clear-tacacs-server-host-counters {feature-list:HAVE_HOSTPD}?
| +---w input

```

```

|   +---w hostname   cml-data-types:cml_hostname_t
|   +---w vrf-name   string
+---x tacacs-terminal-debug-on {feature-list:HAVE_HOSTPD}?
+---x tacacs-terminal-debug-off {feature-list:HAVE_HOSTPD}?

```

ipi-telnet

```

+--rw telnet-server
  +--rw debug
    | +--rw config
    | | +--rw enable?  empty
    | +--ro state
    | +--ro enable?      empty
    | +--ro terminal-debug-status? cml-data-types:cml_on_off_t
  +--rw vrfs
    +--rw vrf* [vrf-name]
      +--rw vrf-name  -> ../config/vrf-name
      +--rw config
        | +--rw vrf-name?  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
        | +--rw enable?    empty
        | +--rw port?      uint32 {feature-list:HAVE_TELNET_SERVER}?
        | +--rw session-limit? uint8 {feature-list:HAVE_TELNET_SERVER}?
        +--ro state
          +--ro vrf-name?  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
          +--ro enable?    empty
          +--ro port?      uint32 {feature-list:HAVE_TELNET_SERVER}?
          +--ro session-limit? uint8 {feature-list:HAVE_TELNET_SERVER}?

```

rpcs:

```

+---x telnet-terminal-debug-on {feature-list:HAVE_HOSTPD}?
+---x telnet-terminal-debug-off {feature-list:HAVE_HOSTPD}?

```

ipi-tfo

```
+--rw trigger-failover
  +--rw config
    | +--rw admin-status?  cml-data-types:cml_enable_disable_t
    +--ro state
      | +--ro admin-status?  cml-data-types:cml_enable_disable_t
    +--rw interfaces
      | +--rw interface* [name]
      |   +--rw name      -> ../config/name
      |   +--rw config
      |     | +--rw name?    -> /ipi-interface:interfaces/interface/name
      |     | +--rw link-type?  ipi-tfo-types:tfo_fog_link_type_t
      |     +--ro state
      |       | +--ro name?    -> /ipi-interface:interfaces/interface/name
      |       | +--ro link-type?  ipi-tfo-types:tfo_fog_link_type_t
      |       +--rw tfo-groups
      |         +--rw tfo-group* [fog-id]
      |           +--rw fog-id  -> ../config/fog-id
      |           +--rw config
      |             | +--rw fog-id?    uint32
      |             | +--rw group-type  ipi-tfo-types:tfo_fog_group_type_t
      |             +--ro state
      |               +--ro fog-id?    uint32
      |               +--ro group-type  ipi-tfo-types:tfo_fog_group_type_t
    +--rw failover-groups
      +--rw failover-group* [group-id]
        +--rw group-id  -> ../config/group-id
        +--rw config
          | +--rw group-id?          uint32
          | +--rw admin-status      cml-data-types:cml_enable_disable_t
          | +--rw failover-trigger-count?  uint32
          +--ro state
            | +--ro group-id?          uint32
            | +--ro admin-status      cml-data-types:cml_enable_disable_t
            | +--ro failover-trigger-count?  uint32
```

```

| +--ro cpq-disable-status?    boolean
| +--ro mpg-disable-status?    boolean
+--ro counters
  +--ro mpg-link-failure-count? uint64
  +--ro mpg-link-recover-count? uint64
  +--ro cpq-auto-disable-count? uint64
  +--ro cpq-auto-enable-count? uint64

```

rpcs:

```

+---x tfo-clear-counters-all {feature-list:HAVE_TFO}?
+---x tfo-clear-fog-counters {feature-list:HAVE_TFO}?
  +---w input
    +---w group-id    uint32

```

ipi-time-range

```

+--rw time-ranges
  +--rw time-range* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?    string
      +--ro state
        | +--ro name?  string
      +--rw start-time-options
        | +--rw config
        | | +--rw (start-time)?
        | |   +--:(absolute-start-time)
        | |   | +--rw absolute-start-time?  time_range_date_time_t
        | |   +--:(relative-start-time)
        | |     +--rw relative-start-time?  time_range_relative_time_t
        | +--ro state
        |   +--ro (start-time)?
        |   +--:(absolute-start-time)
        |   | +--ro absolute-start-time?  time_range_date_time_t
        |   +--:(relative-start-time)
        |     +--ro relative-start-time?  time_range_relative_time_t

```

```

+--rw end-time-options
| +--rw config
| | +--rw (end-time)?
| |   +--:(absolute-end-time)
| |   | +--rw absolute-end-time?  time_range_date_time_t
| |   +--:(relative-end-time)
| |   | +--rw relative-end-time?  string
| +--ro state
|   +--ro (end-time)?
|     +--:(absolute-end-time)
|     | +--ro absolute-end-time?  time_range_date_time_t
|     +--:(relative-end-time)
|     | +--ro relative-end-time?  string
+--rw frequency-options
  +--rw config
  | +--rw frequency?  time_range_frequency_t
  +--ro state
    +--ro frequency?  time_range_frequency_t

```

ipi-twamp

```

+--rw twamp
  +--rw light
  | +--rw control
  | | +--rw config!
  | | | +--rw enable          empty
  | | | +--rw administrative-state?  cml-data-types:cml_enable_disable_t
  | | +--ro state
  | | | +--ro enable          empty
  | | | +--ro administrative-state?  cml-data-types:cml_enable_disable_t
  | | +--rw test-sessions
  | |   +--rw test-session* [session-name vrf-name]
  | |     +--rw session-name  -> ../config/session-name

```

```
| |   +--rw vrf-name      -> ../config/vrf-name
| |   +--rw config
| |   |   +--rw session-name?      string
| |   |   +--rw sender-ip-address   ipi-twamp-types:twamp_hostname_t
| |   |   +--rw sender-udp-port     ipi-twamp-types:twamp_udp_port_t
| |   |   +--rw reflector-ip-address ipi-twamp-types:twamp_hostname_t
| |   |   +--rw reflector-udp-port   ipi-twamp-types:twamp_udp_port_t
| |   |   +--rw dscp-value?         ipi-twamp-types:twamp_dscp_t
| |   |   +--rw vrf-name?          string
| |   +--ro state
| |       +--ro session-name?      string
| |       +--ro sender-ip-address   ipi-twamp-types:twamp_hostname_t
| |       +--ro sender-udp-port     ipi-twamp-types:twamp_udp_port_t
| |       +--ro reflector-ip-address ipi-twamp-types:twamp_hostname_t
| |       +--ro reflector-udp-port   ipi-twamp-types:twamp_udp_port_t
| |       +--ro dscp-value?         ipi-twamp-types:twamp_dscp_t
| |       +--ro vrf-name?          string
| |       +--ro start-time?        yang:date-and-time
| |       +--ro elapsed-time?      uint32
| |       +--ro statistics
| |           +--ro packets-sent?      yang:counter64
| |           +--ro packets-received?   yang:counter64
| |           +--ro packet-loss?        decimal64
| |           +--ro round-trip-delay
| |               | +--ro minimum?  uint64
| |               | +--ro maximum?  uint64
| |               | +--ro average?  uint64
| |           +--ro forward-delay
| |               | +--ro minimum?  uint64
| |               | +--ro maximum?  uint64
| |               | +--ro average?  uint64
| |           +--ro reverse-delay
| |               | +--ro minimum?  uint64
| |               | +--ro maximum?  uint64
| |               | +--ro average?  uint64
| |           +--ro round-trip-delay-variation
```



```

| |      | +--ro minimum?  uint64
| |      | +--ro maximum?  uint64
| |      | +--ro average?   uint64
| |      +--ro forward-delay-variation
| |      | +--ro minimum?  uint64
| |      | +--ro maximum?  uint64
| |      | +--ro average?   uint64
| |      +--ro reverse-delay-variation
| |      +--ro minimum?  uint64
| |      +--ro maximum?  uint64
| |      +--ro average?   uint64
| +--rw session-reflector
|   +--rw config!
|     | +--rw enable          empty
|     | +--rw administrative-state?  cml-data-types:cml_enable_disable_t
|     +--ro state
|       | +--ro enable          empty
|       | +--ro administrative-state?  cml-data-types:cml_enable_disable_t
|     +--rw sessions
|       +--rw session* [name vrf-name]
|         +--rw name      -> ../config/name
|         +--rw vrf-name  -> ../config/vrf-name
|         +--rw config
|           | +--rw name?          string
|           | +--rw reflector-ip-address  ipi-twamp-types:twamp_hostname_t
|           | +--rw reflector-udp-port?   ipi-twamp-types:twamp_udp_port_t
|           | +--rw sender-ip-address?    ipi-twamp-types:twamp_hostname_t
|           | +--rw sender-udp-port?      ipi-twamp-types:twamp_ref_src_udp_port_t
|           | +--rw vrf-name?            string
|           | +--rw upstream-intf?       string
|         +--ro state
|           +--ro name?                string
|           +--ro reflector-ip-address  ipi-twamp-types:twamp_hostname_t
|           +--ro reflector-udp-port?   ipi-twamp-types:twamp_udp_port_t
|           +--ro sender-ip-address?    ipi-twamp-types:twamp_hostname_t
|           +--ro sender-udp-port?      ipi-twamp-types:twamp_ref_src_udp_port_t

```

```

|      +--ro vrf-name?          string
|      +--ro upstream-intf?     string
+--rw debug
| +--rw config
| | +--rw options? ipi-twamp-types:twamp_debug_t
| +--ro state
| | +--ro options?          ipi-twamp-types:twamp_debug_t
| | +--ro terminal-debug-status? ipi-twamp-types:twamp_debug_t
+--rw server
| +--rw config
| | +--rw port?              ipi-twamp-types:twamp_udp_port_t
| | +--rw max-connection-duration? uint8
| | +--rw max-connections?      uint8
| | +--rw max-connections-per-client? uint8
| | +--rw maximum-sessions?      uint16
| | +--rw maximum-sessions-per-connection? uint16
| | +--rw inactivity-timeout?    uint8
| | +--rw vrf-name*           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| +--ro state
| | +--ro port?              ipi-twamp-types:twamp_udp_port_t
| | +--ro max-connection-duration? uint8
| | +--ro max-connections?      uint8
| | +--ro max-connections-per-client? uint8
| | +--ro maximum-sessions?      uint16
| | +--ro maximum-sessions-per-connection? uint16
| | +--ro inactivity-timeout?    uint8
| | +--ro vrf-name*           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
| | +--ro nb-connections?      yang:counter32
| | +--ro nb-sessions?          yang:counter32
| | +--ro nb-running-sessions?  yang:counter32
| +--ro connections
| | +--ro connection* [connection-id]
| | | +--ro connection-id -> ../state/connection-id
| | | +--ro state
| | | +--ro connection-id?      uint32

```

```

| |   +--ro client-address?    inet:ip-address
| |   +--ro client-port?      uint16
| |   +--ro client-vrf?       string
| |   +--ro connection-state?  string
| |   +--ro connection-time?   yang:date-and-time
| |   +--ro last-activity-time? yang:date-and-time
| |   +--ro nb-session-requests? yang:counter32
| |   +--ro nb-accepted-sessions? yang:counter32
| +--ro sessions
| | +--ro session* [session-id]
| |   +--ro session-id  -> ../state/session-id
| |   +--ro state
| |     +--ro session-id?    string
| |     +--ro connection-id? uint32
| |     +--ro session-state? string
| |     +--ro sender-address? inet:ip-address
| |     +--ro sender-port?   uint16
| |     +--ro receiver-address? inet:ip-address
| |     +--ro receiver-port? uint16
| |     +--ro receiver-vrf?  string
| |     +--ro start-time?    yang:date-and-time
| |     +--ro timeout?       uint32
| +--rw admin
|   +--rw config!
| |   +--rw enable          empty
| |   +--rw administrative-state? cml-data-types:cml_enable_disable_t
| |   +--ro state
| |     +--ro enable          empty
| |     +--ro administrative-state? cml-data-types:cml_enable_disable_t
+--rw overall-packet-rate
| +--ro state
|   +--ro packet-sending-rate?    uint32
|   +--ro senders-rate?           uint32
|   +--ro reflectors-rate?        uint32
|   +--ro max-sending-rate?       uint32
|   +--ro max-sending-rate-crossed? boolean

```

```

+--rw client
| +--rw config!
| | +--rw enable          empty
| | +--rw maximum-sessions?      uint16
| | +--rw maximum-connections?   uint8
| | +--rw maximum-sessions-per-connection?  uint16
| +--ro state
| | +--ro enable          empty
| | +--ro maximum-sessions?      uint16
| | +--ro maximum-connections?   uint8
| | +--ro maximum-sessions-per-connection?  uint16
| +--rw connections
|   +--rw connection* [connection-name vrf-name]
|     +--rw connection-name  -> ../config/connection-name
|     +--rw vrf-name         -> ../config/vrf-name
|     +--rw config
|       +--rw connection-name?  string
|       +--rw server-address?    ipi-twamp-types:twamp_hostname_t
|       +--rw server-port?      ipi-twamp-types:twamp_udp_port_t
|       +--rw vrf-name?         string
|     +--ro state
|       +--ro connection-name?   string
|       +--ro server-address?     ipi-twamp-types:twamp_hostname_t
|       +--ro server-port?       ipi-twamp-types:twamp_udp_port_t
|       +--ro vrf-name?          string
|       +--ro client-port?       uint32
|       +--ro client-address?     inet:ip-address
|       +--ro connection-time?    yang:date-and-time
|       +--ro last-activity-time? yang:date-and-time
|       +--ro connection-state?   string
|       +--ro nb-session-requested? yang:counter32
|       +--ro nb-sessions-accepted? yang:counter32
|   +--rw sessions
|     +--rw session* [session-name]
|       +--rw session-name  -> ../config/session-name
|       +--rw config

```

```

|      | +--rw session-name?    string
|      | +--rw sender-port?     uint32
|      | +--rw receiver-port?   uint32
|      | +--rw sender-address?   ipi-twamp-types:twamp_hostname_t
|      | +--rw receiver-address? ipi-twamp-types:twamp_hostname_t
|      | +--rw start-time?      ipi-twamp-types:twamp_date_time_t
|      | +--rw interface-name?  string
|      +--ro state
|          +--ro session-name?    string
|          +--ro sender-port?     uint32
|          +--ro receiver-port?   uint32
|          +--ro sender-address?   ipi-twamp-types:twamp_hostname_t
|          +--ro receiver-address? ipi-twamp-types:twamp_hostname_t
|          +--ro start-time?      ipi-twamp-types:twamp_date_time_t
|          +--ro interface-name?  string
|          +--ro requested-receiver-port? uint32
|          +--ro session-id?      string
+--rw sessions
+--rw session* [session-name]
+--rw session-name -> ../config/session-name
+--rw config
| +--rw session-name? string
| +--rw enabled?      empty
| +--rw description?  cml-data-types:cml_line_t
+--ro state
| +--ro session-name? string
| +--ro enabled?      empty
| +--ro description?  cml-data-types:cml_line_t
+--rw parameters
| +--rw config
| | +--rw reflector-ip?   ipi-twamp-types:twamp_hostname_t
| | +--rw reflector-port? ipi-twamp-types:twamp_udp_port_t
| | +--rw sender-ip?     ipi-twamp-types:twamp_hostname_t
| | +--rw sender-port?   ipi-twamp-types:twamp_udp_port_t
| | +--rw vrf-name?      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| | +--rw vpn-net-interface? string

```

```

| | +--rw dscp?          string
| | +--rw burst-interval? uint16
| | +--rw burst-count?   uint8
| | +--rw interval?      uint16
| +--ro state
|   +--ro reflector-ip?   ipi-twamp-types:twamp_hostname_t
|   +--ro reflector-port? ipi-twamp-types:twamp_udp_port_t
|   +--ro sender-ip?      ipi-twamp-types:twamp_hostname_t
|   +--ro sender-port?    ipi-twamp-types:twamp_udp_port_t
| +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| +--ro vpn-net-interface? string
| +--ro dscp?             string
| +--ro burst-interval?   uint16
| +--ro burst-count?     uint8
| +--ro interval?        uint16
+--rw notification
| +--rw config
| | +--rw enabled?        empty
| | +--rw threshold?      uint8
| | +--rw minimum-change? uint16
| +--ro state
|   +--ro enabled?        empty
|   +--ro threshold?      uint8
|   +--ro minimum-change? uint16
+--ro statistics
  +--ro state
    +--ro start-time?      yang:date-and-time
    +--ro elapsed-time?    uint32
    +--ro last-calculated
    | +--ro calculation-time? yang:date-and-time
    | +--ro minimum-delay?   uint64
    | +--ro maximum-delay?   uint64
    | +--ro average-delay?    uint64
    | +--ro minimum-delay-variation? uint64
    | +--ro maximum-delay-variation? uint64
    | +--ro average-delay-variation? uint64

```

```

| +--ro packets-sent?      yang:counter64
| +--ro packets-received?  yang:counter64
| +--ro packets-timeout?   yang:counter64
| +--ro packet-loss?       decimal64
+--ro last-notified
| +--ro time-notified-packet-loss? yang:date-and-time
| +--ro packet-loss?        decimal64
| +--ro time-notified-average-delay? yang:date-and-time
| +--ro average-delay?      yang:counter64
+--ro packets
| +--ro packets-sent?      yang:counter64
| +--ro packets-received?  yang:counter64
| +--ro packet-loss?       decimal64
+--ro round-trip-delay
| +--ro minimum?  uint64
| +--ro maximum?  uint64
| +--ro average?  uint64
+--ro round-forward-delay
| +--ro minimum?  uint64
| +--ro maximum?  uint64
| +--ro average?  uint64
+--ro reverse-delay
| +--ro minimum?  uint64
| +--ro maximum?  uint64
| +--ro average?  uint64
+--ro round-trip-delay-variation
| +--ro minimum?  uint64
| +--ro maximum?  uint64
| +--ro average?  uint64
+--ro forward-delay-variation
| +--ro minimum?  uint64
| +--ro maximum?  uint64
| +--ro average?  uint64
+--ro reverse-delay-variation
    +--ro minimum?  uint64
    +--ro maximum?  uint64

```

 +--ro average? uint64

rpcs:

```
+---x twamp-client-start-connection {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w connection-name string
|   +---w vrf-name?      string
|   +---w packet-count   uint32
+---x twamp-client-stop-connection {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w connection-name string
|   +---w vrf-name?      string
+---x twamp-client-reset-session {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w connection-name string
|   +---w session-name   string
|   +---w vrf-name?      string
+---x twamp-session-clear-measurement {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w session-name string
+---x twamp-session-clear-measurement-all {feature-list:HAVE_TWAMP}?
+---x twamp-test-session-start {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w session-name string
|   +---w packet-count  uint16
|   +---w packet-interval? uint16
|   +---w delay-threshold? uint32
+---x twamp-test-session-stop {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w session-name string
+---x twamp-terminal-debug-on {feature-list:HAVE_TWAMP}?
| +---w input
|   +---w terminal-debug-options ipi-twamp-types:twamp_debug_t
+---x twamp-terminal-debug-off {feature-list:HAVE_TWAMP}?
    +---w input
        +---w terminal-debug-options ipi-twamp-types:twamp_debug_t
```


notifications:

```
+---n twamp-server-client-connected {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro connection-id? uint32
| +--ro client-address? inet:ip-address
| +--ro client-port?   uint16
| +--ro client-vrf?    string
+---n twamp-server-client-disconnected {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro connection-id? uint32
| +--ro client-address? inet:ip-address
| +--ro client-port?   uint16
| +--ro client-vrf?    string
+---n twamp-server-session-accepted {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro session-id?    string
| +--ro connection-id? uint32
| +--ro sender-address? inet:ip-address
| +--ro sender-port?   uint16
| +--ro receiver-address? inet:ip-address
| +--ro receiver-port? uint16
| +--ro receiver-vrf?  string
+---n twamp-server-sessions-started {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro session-id?    string
| +--ro connection-id? uint32
+---n twamp-server-sessions-stopped {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro session-id?    string
| +--ro connection-id? uint32
```

```
+---n twamp-server-client-inactivity-timeout {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro connection-id? uint32
| +--ro last-activity-time? yang:date-and-time
+---n twamp-server-client-maximum-connection-duration-timeout {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro connection-id? uint32
| +--ro connection-time? yang:date-and-time
+---n twamp-server-maximum-connections-exceeded {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro max-connections? uint8
+---n twamp-server-maximum-sessions-exceeded {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro maximum-sessions? uint16
+---n twamp-server-maximum-connections-per-client-exceeded {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro max-connections-per-client? uint8
| +--ro connection-id? uint32
+---n twamp-server-maximum-sessions-per-connection-exceeded {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro maximum-sessions-per-connection? uint16
| +--ro connection-id? uint32
+---n twamp-delay-threshold-breached {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
| +--ro eventClass?    cml-data-types:cml_notif_class_t
| +--ro session-name?  string
| +--ro vrf-name?      string
| +--ro average?       uint64
+---n twamp-overall-rate-crossed {feature-list:HAVE_TWAMP}?
| +--ro severity?      cml-data-types:cml_notif_severity_t
```

```

| +--ro eventClass?          cml-data-types:cml_notif_class_t
| +--ro packet-sending-rate?  uint32
| +--ro senders-rate?        uint32
| +--ro reflectors-rate?     uint32
| +--ro max-sending-rate?    uint32
| +--ro max-sending-rate-crossed?  boolean
+---n twamp-overall-rate-crossed-cleared {feature-list:HAVE_TWAMP}?
| +--ro severity?           cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro packet-sending-rate?  uint32
| +--ro senders-rate?      uint32
| +--ro reflectors-rate?    uint32
| +--ro max-sending-rate?   uint32
| +--ro max-sending-rate-crossed?  boolean
+---n twamp-client-session-accepted {feature-list:HAVE_TWAMP}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro session-name?      string
| +--ro connection-name?   string
| +--ro vrf-name?          string
+---n twamp-client-sessions-started {feature-list:HAVE_TWAMP}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro session-name?      string
| +--ro connection-name?   string
| +--ro vrf-name?          string
+---n twamp-client-sessions-stopped {feature-list:HAVE_TWAMP}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro session-name?      string
| +--ro connection-name?   string
| +--ro vrf-name?          string
+---n twamp-session-measurement-threshold-crossed {feature-list:HAVE_TWAMP}?
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro session-name?      string

```

```

| +--ro average-delay?  uint64
+---n twamp-session-measurement-loss-changed {feature-list:HAVE_TWAMP}?
  +--ro severity?      cml-data-types:cml_notif_severity_t
  +--ro eventClass?    cml-data-types:cml_notif_class_t
  +--ro session-name?  string
  +--ro packet-loss?   decimal64

```

ipi-udld

```

+--rw udld
  +--rw global
    | +--rw config
    | | +--rw enable?      empty
    | | +--rw message-time? uint8
    | +--ro state
    |   +--ro enable?      empty
    |   +--ro message-time? uint8
  +--rw debug
    | +--rw config
    | | +--rw options? ipi-udld-types:udld_debug_t
    | +--ro state
    |   +--ro options?      ipi-udld-types:udld_debug_t
    |   +--ro terminal-debug-status? ipi-udld-types:udld_debug_t
  +--rw interfaces
    +--rw interface* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name?      -> /ipi-interface:interfaces/interface/name
        | +--rw mode?      ipi-udld-types:udld_mode_type_t
        | +--rw administrative-state? cml-data-types:cml_enable_disable_t
        +--ro state
          +--ro name?      -> /ipi-interface:interfaces/interface/name
          +--ro mode?      ipi-udld-types:udld_mode_type_t
          +--ro administrative-state? cml-data-types:cml_enable_disable_t

```

+--ro link-state? ipi-udld-types:udld_link_state_type_t

rpcs:

```
+---x udld-terminal-debug-on {feature-list:HAVE_UDLD}?
| +---w input
|   +---w terminal-debug-options ipi-udld-types:udld_debug_t
+---x udld-terminal-debug-off {feature-list:HAVE_UDLD}?
  +---w input
    +---w terminal-debug-options ipi-udld-types:udld_debug_t
```

ipi-unicast-rpf

```
+--rw unicast-rpf {feature-list:HAVE_RPF}?
  +--rw global
  | +--rw config
  | | +--rw enable-route-lookup? empty
  | | +--rw enable-default-route-check? empty {feature-list:HAVE_DUNE,feature-
list:HAVE_GLOBAL_URPF_ALLOW_DEFAULT}?
  | +--ro state
  |   +--ro enable-route-lookup? empty
  |   +--ro enable-default-route-check? empty {feature-list:HAVE_DUNE,feature-
list:HAVE_GLOBAL_URPF_ALLOW_DEFAULT}?
  +--rw interfaces
    +--rw interface* [name]
      +--rw name -> ../config/name
      +--rw config
      | +--rw name? -> /ipi-interface:interfaces/interface/name
      | +--rw source-reachability-mode ipi-unicast-rpf-types:urpf_src_reachability_mode_t
      +--ro state
        +--ro name? -> /ipi-interface:interfaces/interface/name
        +--ro source-reachability-mode ipi-unicast-rpf-types:urpf_src_reachability_mode_t
```

ipi-user-management

```

+--rw user-management
  +--rw debug
    | +--rw config
    | | +--rw enable? empty
    | +--ro state
    | +--ro enable? empty
    | +--ro terminal-debug-status? cml-data-types:cml_on_off_t
  +--rw hashing
    | +--rw config
    | | +--rw password-hashing-algorithm? ipi-user-management-types:user_mgmt_hashing_algorithm_t
    | +--ro state
    | +--ro password-hashing-algorithm? ipi-user-management-types:user_mgmt_hashing_algorithm_t
  +--rw global
    | +--rw config
    | | +--rw disable-default-user? empty
    | +--ro state
    | +--ro disable-default-user? empty
  +--rw users
    +--rw user* [username]
      +--rw username -> ../config/username
      +--rw config
        | +--rw username? string
        | +--rw role? ipi-user-management-types:user_mgmt_role_types_t
        | +--rw rbac-role? ipi-user-management-types:user_mgmt_rbac_role_t {feature-list:HAVE_RBAC}?
        | +--rw (password-type)?
        | | +--:(plain-text)
        | | | +--rw password? string
        | | +--:(hashed)
        | | +--rw password-hashed? string
      +--ro state
        +--ro username? string
        +--ro role? ipi-user-management-types:user_mgmt_role_types_t
        +--ro rbac-role? ipi-user-management-types:user_mgmt_rbac_role_t {feature-list:HAVE_RBAC}?
        +--ro (password-type)?

```

```
+--:(plain-text)
| +--ro password?      string
+--:(hashed)
  +--ro password-hashed? string
```

rpcs:

```
+---x user-management-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_USER_MGMT}?
+---x user-management-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_USER_MGMT}?
```

ipi-user-session-management

```
+--rw user-session
  +--rw line-console
    | +--rw console* [console-id]
    |   +--rw console-id  -> ../config/console-id
    |   +--rw config
    |     | +--rw console-id?          ipi-user-session-management-types:line_console_id_t
    |     | +--rw privilege-level?     uint8
    |     | +--rw command-history-max-limit? uint32
    |     +--ro state
    |       | +--ro console-id?          ipi-user-session-management-types:line_console_id_t
    |       | +--ro privilege-level?     uint8
    |       | +--ro command-history-max-limit? uint32
    |       +--rw timeout
    |         +--rw config!
    |           | +--rw minutes  uint32
    |           | +--rw seconds? uint32
    |           +--ro state
    |             +--ro minutes  uint32
    |             +--ro seconds? uint32
    +--rw line-vty
      | +--rw vty* [vty-id]
      |   +--rw vty-id  -> ../config/vty-id
      |   +--rw config
      |     | +--rw vty-id?          cml-data-types:cml_range_t
```

```

| | +--rw privilege-level?      uint8
| | +--rw command-history-max-limit?  uint32
| +--ro state
| | +--ro vty-id?              cml-data-types:cml_range_t
| | +--ro privilege-level?      uint8
| | +--ro command-history-max-limit?  uint32
| +--rw timeout
|   +--rw config!
|     | +--rw minutes  uint32
|     | +--rw seconds?  uint32
|     +--ro state
|       +--ro minutes  uint32
|       +--ro seconds?  uint32
+--ro sessions
| +--ro session* [id]
|   +--ro id      -> ../state/id
|   +--ro state
|     +--ro id?      string
|     +--ro line?     string
|     +--ro user-name?  string
|     +--ro client-type?  ipi-user-session-types:user_session_user_type_t
|     +--ro idle-time?   string
|     +--ro process-identifier?  uint32
|     +--ro type?       ipi-user-session-types:user_session_type_t
|     +--ro user-role?   ipi-user-session-types:user_session_user_role_type_t
|     +--ro remote-ip?   string
+--rw max-session-limit
  +--rw config
  | +--rw max-session-limit?  uint8
  +--ro state
    +--ro max-session-limit?  uint8

rpcs:
+---x clear-line {feature-list:HAVE_IMI}?
  +---w input
    +---w line-name  string

```

module: ipi-vlan

```

+--rw vlan-classifier {feature-list:HAVE_VLAN_CLASS}?
| +--rw classifier-rules
| | +--rw classifier-rule* [rule-id]
| |   +--rw rule-id      -> ../config/rule-id
| |   +--rw config
| |     | +--rw rule-id?  uint16
| |     +--ro state
| |       | +--ro rule-id? uint16
| |       +--rw rule-criteria
| |         +--rw config
| |           | +--rw mac-address?  cml-data-types:cml_mac_addr_t
| |           | +--rw ipv4-address? cml-data-types:cml_ipv4_prefix_t
| |           | +--rw ether-type?   ipi-vlan-types:vlan_classifier_ethertype_t
| |           +--ro state
| |             +--ro mac-address?  cml-data-types:cml_mac_addr_t
| |             +--ro ipv4-address? cml-data-types:cml_ipv4_prefix_t
| |             +--ro ether-type?   ipi-vlan-types:vlan_classifier_ethertype_t
| +--rw classifier-groups
| | +--rw classifier-group* [group-id rule-id]
| |   +--rw group-id  -> ../config/group-id
| |   +--rw rule-id   -> ../config/rule-id
| |   +--rw config
| |     | +--rw group-id?  uint8
| |     | +--rw rule-id?   -> /vlan-classifier/classifier-rules/classifier-rule/rule-id
| |     +--ro state
| |       +--ro group-id?  uint8
| |       +--ro rule-id?   -> /vlan-classifier/classifier-rules/classifier-rule/rule-id
| +--rw ports
|   +--rw port* [port-name group-id]
|     +--rw port-name  -> ../config/port-name

```

```

|   +--rw group-id   -> ../config/group-id
|   +--rw config
|   | +--rw port-name? -> /ipi-interface:interfaces/interface/name
|   | +--rw group-id?  -> /vlan-classifier/classifier-groups/classifier-group/group-id
|   | +--rw vlan-id    -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/vlans/vlan/vlan-id
id
|   +--ro state
|   | +--ro port-name? -> /ipi-interface:interfaces/interface/name
|   | +--ro group-id?  -> /vlan-classifier/classifier-groups/classifier-group/group-id
|   | +--ro vlan-id    -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/vlans/vlan/vlan-id
+--rw layer2-global
| +--rw config
| | +--rw disable-vlan-classifier-feature? empty {feature-list:HAVE_VLAN_CLASS}?
| | +--rw disable-port-security?          empty
| | +--rw vlan-xlate-1?                    empty
| +--ro state
| | +--ro disable-vlan-classifier-feature? empty {feature-list:HAVE_VLAN_CLASS}?
| | +--ro disable-port-security?          empty
| | +--ro vlan-xlate-1?                    empty
+--rw vlan-global
  +--ro counters
    +--ro total-vlans?  yang:counter32
    +--ro maximum-vlans? yang:counter32

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
+--rw vlans
  +--rw vlan* [vlan-id]
    +--rw vlan-id   -> ../config/vlan-id
    +--rw config
    | +--rw vlan-id?      cml-data-types:cml_range_t
    | +--rw disable-mac-learning? empty
    +--ro state
    | +--ro vlan-id?      cml-data-types:cml_range_t
    | +--ro disable-mac-learning? empty
    +--rw customer-vlan
    | +--rw config
    | | +--rw type?  ipi-vlan-types:cvlan_type_t

```

```

| | +--rw name?   string
| | +--rw state?  ipi-vlan-types:vlan_state_t
| +--ro state
|   +--ro type?      ipi-vlan-types:cvlan_type_t
|   +--ro name?      string
|   +--ro state?     ipi-vlan-types:vlan_state_t
|   +--ro operational-status? ipi-vlan-types:vlan_oper_status_t
|   +--ro tagged-interface* string
+--rw service-vlan {feature-list:HAVE_PROVIDER_BRIDGE}?
| +--rw config
| | +--rw type?  ipi-vlan-types:svlan_type_t
| | +--rw name?  string
| | +--rw state? ipi-vlan-types:vlan_state_t
| +--ro state
|   +--ro type?      ipi-vlan-types:svlan_type_t
|   +--ro name?      string
|   +--ro state?     ipi-vlan-types:vlan_state_t
|   +--ro operational-status? ipi-vlan-types:vlan_oper_status_t
|   +--ro tagged-interface* string
+--rw private-vlan {feature-list:HAVE_PVLAN}?
  +--rw config!
  | +--rw type  ipi-vlan-types:vlan_pvlan_type_t
  +--ro state
  | +--ro type  ipi-vlan-types:vlan_pvlan_type_t
  +--rw association
    +--rw config
    | +--rw secondary-vlan? cml-data-types:cml_range_t
    +--ro state
    | +--ro secondary-vlan? cml-data-types:cml_range_t
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
+--rw cvlan-registration-tables {feature-list:HAVE_VLAN,feature-list:HAVE_PROVIDER_BRIDGE}?
+--rw cvlan-registration-table* [table-name]
+--rw table-name    -> ../config/table-name
+--rw config
| +--rw table-name? string
+--ro state

```

```

| +--ro table-name?  string
+--rw cvlan-mappings
  +--rw cvlan-mapping* [svlan-id cvlan-id]
    +--rw svlan-id   -> ../config/svlan-id
    +--rw cvlan-id   -> ../config/cvlan-id
    +--rw config
      | +--rw svlan-id?      uint16
      | +--rw cvlan-id?      cml-data-types:cml_range_t
      | +--rw untagged-ep?    ipi-vlan-types:cvlan_config_t
      | +--rw translated-cvlan-id?  uint16
      | +--rw cos-to-queue?    -> /ipi-qos:qos/global/map-profile/cos-to-queue-profiles/cos-to-queue-profile/
name {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
      | +--rw remark-cos?      empty {feature-list:HAVE_QOS,feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
    +--ro state
      +--ro svlan-id?      uint16
      +--ro cvlan-id?      cml-data-types:cml_range_t
      +--ro untagged-ep?    ipi-vlan-types:cvlan_config_t
      +--ro translated-cvlan-id?  uint16
      +--ro cos-to-queue?    -> /ipi-qos:qos/global/map-profile/cos-to-queue-profiles/cos-to-queue-profile/name
{feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
      +--ro remark-cos?      empty {feature-list:HAVE_QOS,feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?

```

module: ipi-vm

```

+--rw vm
| +--rw vm-bridges
| | +--rw vm-bridge* [bridge-name]
| |   +--rw bridge-name   -> ../config/bridge-name
| |   +--rw config
| |     | +--rw bridge-name?  string
| |     +--ro state
| |       +--ro bridge-name?  string
| +--rw control-channel
|   +--rw config!
| | +--rw vlan   uint16
| | +--rw tpid   string

```

```

|   +--ro state
|   +--ro vlan   uint16
|   +--ro tpid   string
+--rw nat
| +--rw dnat
| | +--rw dnat-vrf* [from-match-type from-match-value to-ip-addr protocol from-port-num to-port-num vrf-name]
| | +--rw from-match-type   -> ../config/from-match-type
| | +--rw from-match-value  -> ../config/from-match-value
| | +--rw to-ip-addr        -> ../config/to-ip-addr
| | +--rw protocol          -> ../config/protocol
| | +--rw from-port-num     -> ../config/from-port-num
| | +--rw to-port-num       -> ../config/to-port-num
| | +--rw vrf-name          -> ../config/vrf-name
| | +--rw config!
| | | +--rw from-match-type?  ipi-vm-types:cml_nat_from_match_t
| | | +--rw from-match-value? ipi-vm-types:cml_nat_from_value_t
| | | +--rw to-ip-addr?       inet:ipv4-address
| | | +--rw protocol?         ipi-vm-types:cml_proto_t
| | | +--rw from-port-num?    int32
| | | +--rw to-port-num?      int32
| | | +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| | +--ro state
| |   +--ro from-match-type?  ipi-vm-types:cml_nat_from_match_t
| |   +--ro from-match-value? ipi-vm-types:cml_nat_from_value_t
| |   +--ro to-ip-addr?       inet:ipv4-address
| |   +--ro protocol?         ipi-vm-types:cml_proto_t
| |   +--ro from-port-num?    int32
| |   +--ro to-port-num?      int32
| |   +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| +--rw snat
|   +--rw snat-vrf* [from-ip-addr to-ip-addr vrf-name]
|   +--rw from-ip-addr  -> ../config/from-ip-addr
|   +--rw to-ip-addr    -> ../config/to-ip-addr
|   +--rw vrf-name      -> ../config/vrf-name
|   +--rw config!
|   | +--rw from-ip-addr?  cml-data-types:cml_ipv4_prefix_t

```

```

|   | +--rw to-ip-addr?   ipi-vm-types:cml_nat_from_value_t
|   | +--rw vrf-name?     -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|   +--ro state
|       +--ro from-ip-addr? cml-data-types:cml_ipv4_prefix_t
|       +--ro to-ip-addr?   ipi-vm-types:cml_nat_from_value_t
|       +--ro vrf-name?     -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
+--rw guestVm
    +--rw config!
    | +--rw enable-feature  boolean
    +--ro state
        +--ro enable-feature  boolean

```

module: ipi-vrf

```

+--rw vrf-global
+--ro counters
    +--ro total-vrfs?   yang:counter32
    +--ro maximum-vrfs? yang:counter32

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:

```

+--rw vrf
    +--rw config
    | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/instance-name
    | +--rw description?      cml-data-types:cml_line_t
    | +--rw tunnel-select-policy? string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
    | +--rw lsp-encap-dscp-preserve? ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
    | +--rw router-id?        inet:ipv4-address
    | +--rw evpn-layer3-network-id? uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    | +--rw mtu?              uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    +--ro state
    | +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/instance-name
    | +--ro description?      cml-data-types:cml_line_t
    | +--ro tunnel-select-policy? string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
    | +--ro lsp-encap-dscp-preserve? ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?

```

```

| +--ro router-id?          inet:ipv4-address
| +--ro evpn-layer3-network-id?  uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
| +--ro mtu?                uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
| +--ro vrf-id?             uint32
| +--ro fib-id?             uint32
+--rw snmp {feature-list:HAVE_SNMP}?
  +--rw config
  | +--rw snmp-context-name?  string
  +--ro state
    +--ro snmp-context-name?  string

```

rpcs:

```

+---x clear-default-router-id {feature-list:HAVE_L3}?
+---x clear-vrf-router-id {feature-list:HAVE_VRF}?
  +---w input
    +---w vrfName  string

```

module: ipi-vrrp

```

+--rw vrrp
  +--rw global
  | +--rw config
  | | +--rw disable-virtual-router-mac-address?  empty
  | | +--rw vrrp-v2-compatible?                  empty
  | | +--rw ipv4-exclude-pseudo-header?          empty
  | +--ro state
  | | +--ro disable-virtual-router-mac-address?  empty
  | | +--ro vrrp-v2-compatible?                  empty
  | | +--ro ipv4-exclude-pseudo-header?          empty
  | | +--ro notification-control?                 empty
  | +--ro session

```

```

| | +--ro state
| |   +--ro session-table-maximum? uint32
| |   +--ro session-table-size?   uint32
| |   +--ro ipv4-session-count?   uint32
| |   +--ro ipv6-session-count?   uint32
| +--ro new-master
| | +--ro operational-master-address? inet:ip-address
| | +--ro virtual-router-id?         uint8
| | +--ro new-master-reason?         ipi-vrrp-types:vrrp_new_master_reason_t
| | +--ro uptime?                   string
| +--ro protocol-error
| | +--ro operational-master-address? inet:ip-address
| | +--ro virtual-router-id?         uint8
| | +--ro error-reason?              ipi-vrrp-types:vrrp_error_reason_t
| | +--ro uptime?                   string
| +--ro packet-error
| | +--ro error-reason? ipi-vrrp-types:vrrp_error_reason_t
| +--ro errors
|   +--ro state
|     +--ro checksum-error?         yang:counter64
|     +--ro version-error?          yang:counter64
|     +--ro invalid-virtual-router-id? yang:counter64
+--rw debug
| +--rw config
| | +--rw options? ipi-vrrp-types:vrrp_debug_t
| +--ro state
| | +--ro options? ipi-vrrp-types:vrrp_debug_t
| | +--ro terminal-debug-status? ipi-vrrp-types:vrrp_debug_t
+--rw ipv4-instances
| +--rw ipv4-instance* [virtual-router-id]
| | +--rw virtual-router-id -> ../config/virtual-router-id
| | +--rw config
| | | +--rw virtual-router-id? uint8
| | +--ro state
| | | +--ro virtual-router-id? uint8
| +--rw interfaces

```

```

|   +--rw interface* [interface-name]
|   |   +--rw interface-name      -> ../config/interface-name
|   |   +--rw config
|   |   |   +--rw vrrp-v2-compatible?      empty
|   |   |   +--rw ipv4-exclude-pseudo-header?  empty
|   |   |   +--rw authentication-data?      string
|   |   |   +--rw primary-ip-address?      inet:ipv4-address
|   |   |   +--rw mlag-active-standby?      empty {feature-list:HAVE_MLAG}?
|   |   |   +--rw interface-name?          -> /ipi-interface:interfaces/interface/name
|   |   |   +--rw disable-preempt-mode?      empty
|   |   |   +--rw priority?                  uint8
|   |   |   +--rw preempt-delay?             uint32
|   |   |   +--rw advertisement-interval?    uint16
|   |   |   +--rw disable-accept-mode?      empty
|   |   +--ro state
|   |   |   +--ro vrrp-v2-compatible?      empty
|   |   |   +--ro ipv4-exclude-pseudo-header?  empty
|   |   |   +--ro authentication-data?      string
|   |   |   +--ro primary-ip-address?      inet:ipv4-address
|   |   |   +--ro mlag-active-standby?      empty {feature-list:HAVE_MLAG}?
|   |   |   +--ro interface-name?          -> /ipi-interface:interfaces/interface/name
|   |   |   +--ro disable-preempt-mode?      empty
|   |   |   +--ro priority?                  uint8
|   |   |   +--ro preempt-delay?             uint32
|   |   |   +--ro advertisement-interval?    uint16
|   |   |   +--ro disable-accept-mode?      empty
|   |   +--rw protocol-enable
|   |   |   +--rw config
|   |   |   |   +--rw enable?  empty
|   |   |   +--ro state
|   |   |   |   +--ro enable?  empty
|   |   +--rw virtual-ip
|   |   |   +--rw config!
|   |   |   |   +--rw virtual-ip-address  inet:ipv4-address
|   |   |   |   +--rw ip-address-owner    boolean
|   |   +--ro state

```

```

|   |   +--ro virtual-ip-address   inet:ipv4-address
|   |   +--ro ip-address-owner     boolean
|   +--rw interfaces-tracking
|   |   +--rw interface-tracking* [interface-tracking-name]
|   |   |   +--rw interface-tracking-name  -> ../config/interface-tracking-name
|   |   |   +--rw config
|   |   |   |   +--rw interface-tracking-name?  -> /ipi-interface:interfaces/interface/name
|   |   |   |   +--rw priority-decrement      uint8
|   |   |   +--ro state
|   |   |       +--ro interface-tracking-name?  -> /ipi-interface:interfaces/interface/name
|   |   |       +--ro priority-decrement      uint8
|   |   |       +--ro interface-status?       ipi-vrrp-types:vrrp_iface_status_t
|   |   |       +--ro interface-down-events?   uint32
|   +--ro addresses
|   |   +--ro state
|   |       +--ro operational-primary-address?  inet:ipv4-address
|   |       +--ro operational-master-address?   inet:ipv4-address
|   +--ro session-info
|   |   +--ro state
|   |       +--ro multicast-membership?   ipi-vrrp-types:vrrp_member_state_t
|   |       +--ro address-family?         ipi-vrrp-types:vrrp_addr_family_t
|   |       +--ro running-priority?       uint8
|   |       +--ro virtual-mac-mbyte-word?  cml-data-types:cml_mac_addr_t
|   |       +--ro administrative-state?    ipi-vrrp-types:vrrp_admin_state_t
|   |       +--ro init-message-code?      ipi-vrrp-types:vrrp_init_message_code_t
|   |       +--ro uptime?                 string
|   +--ro reasons
|   |   +--ro state
|   |       +--ro new-master-reason?   ipi-vrrp-types:vrrp_new_master_reason_t
|   +--ro session-status
|   |   +--ro state
|   |       +--ro vrrp-state?          ipi-vrrp-types:vrrp_session_state_t
|   |       +--ro virtual-address-status? ipi-vrrp-types:vrrp_ip_status_t
|   +--ro timers
|   |   +--ro state
|   |       +--ro switchback-delay-timer?  uint32

```

```

|   |   |--ro countdown-timer?      uint32
|   |   |--ro skew-time?           uint32
|   |   |--ro garp-packet-delay?    uint32
|   |   |--ro master-advertise-interval? uint32
|   |   |--ro refresh-rate-interval? uint32
|   |--ro statistics
|   |   |--ro state
|   |   |   |--ro transitions-to-master?      yang:counter64
|   |   |   |--ro advertise-received?        yang:counter64
|   |   |   |--ro priority-zero-received-packets? yang:counter64
|   |   |   |--ro priority-zero-sent-packets?  yang:counter64
|   |   |   |--ro disconnection-time?         string
|   |   |   |--ro monitored-circuit-up-events? yang:counter64
|   |   |   |--ro monitored-circuit-down-events? yang:counter64
|   |--ro errors
|   |   |--ro state
|   |   |   |--ro ttl-error-packets?          yang:counter64
|   |   |   |--ro invalid-type-packets?       yang:counter64
|   |   |   |--ro address-list-errors?        yang:counter64
|   |   |   |--ro invalid-authentication-type? yang:counter64
|   |   |   |--ro authentication-type-mismatch? yang:counter64
|   |   |   |--ro wrong-authentication-password? yang:counter64
|   |   |   |--ro address-mismatch-packets?   yang:counter64
|   |   |   |--ro packet-length-errors?       yang:counter64
|   |--rw objects-tracking {feature-list:HAVE_OBJ_TRACKING}?
|   |   |--rw object-tracking* [tracking-id]
|   |   |   |--rw tracking-id  -> ../config/tracking-id
|   |   |--rw config
|   |   |   |--rw tracking-id?  uint16
|   |   |   |--rw decrement    uint8
|   |   |--ro state
|   |   |   |--ro tracking-id?    uint16
|   |   |   |--ro decrement      uint8
|   |   |   |--ro object-status?  ipi-vrrp-types:vrrp_iface_status_t
|   |   |   |--ro object-down-events? uint32
|--rw ipv6-instances

```

```
+--rw ipv6-instance* [virtual-router-id]
  +--rw virtual-router-id  -> ../config/virtual-router-id
  +--rw config
    | +--rw virtual-router-id? uint8
  +--ro state
    | +--ro virtual-router-id? uint8
  +--rw interfaces
    +--rw interface* [interface-name]
      +--rw interface-name  -> ../config/interface-name
      +--rw config
        | +--rw primary-ip-address? inet:ipv6-address
        | +--rw interface-name?    -> /ipi-interface:interfaces/interface/name
        | +--rw disable-preempt-mode? empty
        | +--rw priority?          uint8
        | +--rw preempt-delay?     uint32
        | +--rw advertisement-interval? uint16
        | +--rw disable-accept-mode? empty
      +--ro state
        | +--ro primary-ip-address? inet:ipv6-address
        | +--ro interface-name?    -> /ipi-interface:interfaces/interface/name
        | +--ro disable-preempt-mode? empty
        | +--ro priority?          uint8
        | +--ro preempt-delay?     uint32
        | +--ro advertisement-interval? uint16
        | +--ro disable-accept-mode? empty
      +--rw protocol-enable
        | +--rw config
        | | +--rw enable? empty
        | +--ro state
        | | +--ro enable? empty
      +--rw virtual-ip-addresses {feature-list:HAVE_IPV6}?
        | +--rw virtual-ip-address* [virtual-ip-address]
        |   +--rw virtual-ip-address  -> ../config/virtual-ip-address
        |   +--rw config
        |   | +--rw virtual-ip-address? inet:ipv6-address
        |   | +--rw ip-address-owner?  boolean
```

```

|   +--ro state
|   +--ro virtual-ip-address?  inet:ipv6-address
|   +--ro ip-address-owner?    boolean
+--rw interfaces-tracking
| +--rw interface-tracking* [interface-tracking-name]
|   +--rw interface-tracking-name  -> ../config/interface-tracking-name
|   +--rw config
|   | +--rw interface-tracking-name?  -> /ipi-interface:interfaces/interface/name
|   | +--rw priority-decrement        uint8
|   +--ro state
|   +--ro interface-tracking-name?  -> /ipi-interface:interfaces/interface/name
|   +--ro priority-decrement        uint8
|   +--ro interface-status?         ipi-vrrp-types:vrrp_iface_status_t
|   +--ro interface-down-events?    uint32
+--ro addresses
| +--ro state
|   +--ro operational-primary-ipv6?  inet:ipv6-address
|   +--ro operational-master-ipv6?   inet:ipv6-address
+--ro session-info
| +--ro state
|   +--ro multicast-membership?      ipi-vrrp-types:vrrp_member_state_t
|   +--ro address-family?            ipi-vrrp-types:vrrp_addr_family_t
|   +--ro running-priority?          uint8
|   +--ro virtual-mac-mbyte-word?    cml-data-types:cml_mac_addr_t
|   +--ro administrative-state?      ipi-vrrp-types:vrrp_admin_state_t
|   +--ro init-message-code?         ipi-vrrp-types:vrrp_init_message_code_t
|   +--ro uptime?                    string
+--ro reasons
| +--ro state
|   +--ro new-master-reason?         ipi-vrrp-types:vrrp_new_master_reason_t
+--ro session-status
| +--ro state
|   +--ro vrrp-state?                ipi-vrrp-types:vrrp_session_state_t
|   +--ro virtual-address-status?    ipi-vrrp-types:vrrp_ip_status_t
+--ro timers
| +--ro state

```

```
| +--ro switchback-delay-timer?   uint32
| +--ro countdown-timer?         uint32
| +--ro skew-time?               uint32
| +--ro garp-packet-delay?       uint32
| +--ro master-advertise-interval? uint32
| +--ro refresh-rate-interval?   uint32
+--ro statistics
| +--ro state
| | +--ro transitions-to-master?   yang:counter64
| | +--ro advertise-received?     yang:counter64
| | +--ro priority-zero-received-packets? yang:counter64
| | +--ro priority-zero-sent-packets? yang:counter64
| | +--ro disconnection-time?     string
| | +--ro monitored-circuit-up-events? yang:counter64
| | +--ro monitored-circuit-down-events? yang:counter64
+--ro errors
| +--ro state
| | +--ro ttl-error-packets?       yang:counter64
| | +--ro invalid-type-packets?   yang:counter64
| | +--ro address-list-errors?    yang:counter64
| | +--ro invalid-authentication-type? yang:counter64
| | +--ro authentication-type-mismatch? yang:counter64
| | +--ro wrong-authentication-password? yang:counter64
| | +--ro address-mismatch-packets? yang:counter64
| | +--ro packet-length-errors?   yang:counter64
+--rw objects-tracking {feature-list:HAVE_OBJ_TRACKING}?
  +--rw object-tracking* [tracking-id]
    +--rw tracking-id  -> ../config/tracking-id
    +--rw config
      | +--rw tracking-id? uint16
      | +--rw decrement  uint8
      +--ro state
        +--ro tracking-id?   uint16
        +--ro decrement     uint8
        +--ro object-status? ipi-vrrp-types:vrrp_iface_status_t
        +--ro object-down-events? uint32
```

rpcs:

```
+---x vrrp-snmp-restart {feature-list:HAVE_SNMP}?
+---x vrrp-clear-statistics {feature-list:HAVE_VRRPD}?
+---x vrrp-clear-ipv4-statistics {feature-list:HAVE_VRRPD}?
+---x vrrp-clear-ipv6-statistics {feature-list:HAVE_VRRPD}?
+---x vrrp-clear-session-ipv4-statistics {feature-list:HAVE_VRRPD}?
| +---w input
|   +---w vrrp-id      uint8
|   +---w interface-name  string
+---x vrrp-clear-session-ipv6-statistics {feature-list:HAVE_VRRPD}?
| +---w input
|   +---w vrrp-id      uint8
|   +---w interface-name  string
+---x vrrp-terminal-debug-all-on {feature-list:HAVE_VRRPD}?
+---x vrrp-terminal-debug-all-off {feature-list:HAVE_VRRPD}?
+---x vrrp-terminal-debug-on {feature-list:HAVE_VRRPD}?
| +---w input
|   +---w terminal-debug-options  ipi-vrrp-types:vrrp_debug_t
+---x vrrp-terminal-debug-off {feature-list:HAVE_VRRPD}?
    +---w input
        +---w terminal-debug-options  ipi-vrrp-types:vrrp_debug_t
```

notifications:

```
+---n vrrp-new-master
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro operational-master-address?  inet:ip-address
| +--ro virtual-router-id?   uint8
| +--ro new-master-reason?    ipi-vrrp-types:vrrp_new_master_reason_t
| +--ro uptime?            string
+---n vrrp-protocol-error
| +--ro severity?          cml-data-types:cml_notif_severity_t
| +--ro eventClass?        cml-data-types:cml_notif_class_t
| +--ro operational-master-address?  inet:ip-address
| +--ro virtual-router-id?   uint8
```

```

| +--ro error-reason?      ipi-vrrp-types:vrrp_error_reason_t
| +--ro uptime?           string
+---n vrrp-packet-error
  +--ro severity?         cml-data-types:cml_notif_severity_t
  +--ro eventClass?       cml-data-types:cml_notif_class_t
  +--ro error-reason?     ipi-vrrp-types:vrrp_error_reason_t

```

module: ipi-vxlan

```

+--rw vxlan
  +--rw global
    | +--rw config!
    | | +--rw enable-vxlan      empty
    | | +--rw vtep-ipv4?       inet:ipv4-address
    | | +--rw mac-ageing-timer? uint32
    | | +--rw arp-nd-refresh-timer? uint32 {feature-list:HAVE_BGP_EVPN}?
    | | +--rw mac-address?     cml-data-types:cml_mac_addr_t {feature-list:HAVE_BGP_EVPN}?
    | +--ro state
    | | +--ro enable-vxlan      empty
    | | +--ro vtep-ipv4?       inet:ipv4-address
    | | +--ro mac-ageing-timer? uint32
    | | +--ro arp-nd-refresh-timer? uint32 {feature-list:HAVE_BGP_EVPN}?
    | | +--ro mac-address?     cml-data-types:cml_mac_addr_t {feature-list:HAVE_BGP_EVPN}?
  +--rw qos-tunnel-mappings
    | +--rw qos-tunnel-mapping* [qos-map-mode traffic-direction] {feature-list:HAVE_QOS}?
    | +--rw qos-map-mode      -> ../config/qos-map-mode
    | +--rw traffic-direction -> ../config/traffic-direction
    | +--rw config
    | | +--rw traffic-direction? ipi-vxlan-types:vxlan_qos_dir_t
    | | +--rw qos-map-mode?     ipi-vxlan-types:vxlan_qos_global_mode_t
    | | +--rw profile-name      string
    | +--ro state
    | | +--ro traffic-direction? ipi-vxlan-types:vxlan_qos_dir_t
    | | +--ro qos-map-mode?     ipi-vxlan-types:vxlan_qos_global_mode_t
    | +--ro profile-name      string
  +--rw vxlan-tenants

```



```
| +--rw vxlan-tenant* [vxlan-identifier]
|   +--rw vxlan-identifier    -> ../config/vxlan-identifier
|   +--rw config
|     | +--rw vxlan-identifier?    uint32
|     | +--rw tenant-type?        ipi-vxlan-types:vxlan_tenant_type_t
|     | +--rw tenant-type-bridge? ipi-vxlan-types:vxlan_tenant_type_bridge_t
|     | +--rw etree-leaf?         empty
|     | +--rw xconnect-identifier? uint32 {feature-list:HAVE_EVPN_VPWS}?
|     | +--rw tenant-xconnect-type? ipi-vxlan-types:vxlan_tenant_xconnect_type_t
|     | +--rw vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|     | {feature-list:HAVE_BGP_EVPN}?
|     |   +--rw map-network*      string
|     |   +--rw mac-hold-timer?   int32 {feature-list:HAVE_BGP_EVPN}?
|     |   +--rw tenant-description? string
|     |   +--rw irb-name?         -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_BGP_EVPN}?
|     |   +--rw evi-learning-limit? -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-
lim-profile-name
|     |   +--ro state
|     |     | +--ro vxlan-identifier?    uint32
|     |     | +--ro tenant-type?        ipi-vxlan-types:vxlan_tenant_type_t
|     |     | +--ro tenant-type-bridge? ipi-vxlan-types:vxlan_tenant_type_bridge_t
|     |     | +--ro etree-leaf?         empty
|     |     | +--ro xconnect-identifier? uint32 {feature-list:HAVE_EVPN_VPWS}?
|     |     | +--ro tenant-xconnect-type? ipi-vxlan-types:vxlan_tenant_xconnect_type_t
|     |     | +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|     |     | {feature-list:HAVE_BGP_EVPN}?
|     |     |   +--ro map-network*      string
|     |     |   +--ro mac-hold-timer?   int32 {feature-list:HAVE_BGP_EVPN}?
|     |     |   +--ro tenant-description? string
|     |     |   +--ro irb-name?         -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_BGP_EVPN}?
|     |     |   +--ro evi-learning-limit? -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-
lim-profile-name
|     |     |   +--ro route-count-info
|     |     |     | +--ro state
|     |     |     |   +--ro total?    uint32
|     |     |     |   +--ro mac-only? uint32
|     |     |     |   +--ro mac-ipv4? uint32
|     |     |     |   +--ro mac-ipv6? uint32 {feature-list:HAVE_IPV6}?
```

```

|   +--ro xconnect-mapping-info {feature-list:HAVE_EVPN_VPWS}?
|   |   +--ro state
|   |   |   +--ro source-tenant-description?  string
|   |   |   +--ro destination-vpws-identifier? uint32
|   |   |   +--ro vlan-id?                    string
|   |   |   +--ro inner-vlan-id?              uint32
|   |   |   +--ro source-interface?          string
|   |   |   +--ro destination-interface?     string
|   |   |   +--ro vtep-ip-address?          inet:ipv4-address
|   |   |   +--ro connection-type?          ipi-vxlan-types:vxlan_tenant_xconnect_connection_type_t
|   |   |   +--ro connection-status?        ipi-vxlan-types:vxlan_tenant_xconnect_connection_status_t
|   +--rw irb
|   |   +--rw config
|   |   |   +--rw irb-advertise-host-route?  empty {feature-list:HAVE_BGP_EVPN}?
|   |   |   +--ro state
|   |   |   |   +--ro irb-advertise-host-route?  empty {feature-list:HAVE_BGP_EVPN}?
|   +--rw static-tenants
|   |   +--rw static-tenant* [mac-address]
|   |   |   +--rw mac-address  -> ../config/mac-address
|   |   |   +--rw config
|   |   |   |   +--rw mac-address?  cml-data-types:cml_mac_addr_t
|   |   |   |   +--rw remote-vtep-ipv4  inet:ipv4-address
|   |   |   +--ro state
|   |   |   |   +--ro mac-address?  cml-data-types:cml_mac_addr_t
|   |   |   |   +--ro remote-vtep-ipv4  inet:ipv4-address
|   +--ro arp-cache-info* [host-ip]
|   |   +--ro host-ip  -> ../state/host-ip
|   |   +--ro state
|   |   |   +--ro host-ip?  inet:ipv4-address
|   |   |   +--ro host-mac?  cml-data-types:cml_mac_addr_t
|   |   |   +--ro host-type?  ipi-vxlan-types:vxlan_host_t
|   |   |   +--ro interface-index?  uint32
|   +--ro nd-cache-info* [host-ip]
|   |   +--ro host-ip  -> ../state/host-ip
|   |   +--ro state
|   |   |   +--ro host-ip?  inet:ipv6-address

```

```

| | +--ro host-mac?      cml-data-types:cml_mac_addr_t
| | +--ro host-type?    ipi-vxlan-types:vxlan_host_t
| | +--ro interface-index? uint32
| +--ro mac-table-info* [mac-address]
| | +--ro mac-address   -> ../state/mac-address
| | +--ro state
| | | +--ro mac-address?      cml-data-types:cml_mac_addr_t
| | | +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
| | | +--ro vlan-id?          string
| | | +--ro inner-vlan-id?     uint32
| | | +--ro vtep-ip-esi?      string
| | | +--ro host-type?        ipi-vxlan-types:vxlan_host_t
| | | +--ro host-status?      ipi-vxlan-types:vxlan_host_status_t
| | | +--ro access-port-description? cml-data-types:cml_line_t
| +--ro static-host-info* [mac-address host-ipv4]
| | +--ro mac-address   -> ../state/mac-address
| | +--ro host-ipv4     -> ../state/host-ipv4
| | +--ro state
| | | +--ro mac-address?      cml-data-types:cml_mac_addr_t
| | | +--ro static-host-state? ipi-vxlan-types:vxlan_static_host_state_t
| | | +--ro host-ipv4?        inet:ipv4-address
| +--ro static-host-ipv6-info* [mac-address host-ipv6]
| | +--ro mac-address   -> ../state/mac-address
| | +--ro host-ipv6     -> ../state/host-ipv6
| | +--ro state
| | | +--ro mac-address?      cml-data-types:cml_mac_addr_t
| | | +--ro static-host-state? ipi-vxlan-types:vxlan_static_host_state_t
| | | +--ro host-ipv6?        inet:ipv6-address {feature-list:HAVE_IPV6}?
+--ro tunnel* [destination-vtep-ip]
| +--ro destination-vtep-ip -> ../state/destination-vtep-ip
| +--ro state
| | +--ro destination-vtep-ip? inet:ipv4-address
| | +--ro source-vtep-ip?     inet:ipv4-address
| | +--ro up-down-time?       yang:timeticks
| | +--ro tunnel-status?      ipi-vxlan-types:vxlan_tunnel_status_t
| +--ro counters

```

```

|   +--ro out-bytes?                yang:counter64
|   +--ro out-packets?              yang:counter64
|   +--ro in-bytes?                 yang:counter64
|   +--ro in-packets?               yang:counter64
|   +--ro tx-arp-discard-packets?    yang:counter64
|   +--ro tx-nd-discard-packets?     yang:counter64
|   +--ro tx-arp-request-packets?    yang:counter64
|   +--ro tx-arp-reply-packets?      yang:counter64
|   +--ro tx-neighbor-solicitation-packets? yang:counter64
|   +--ro tx-neighbor-advertisement-packets? yang:counter64
|   +--ro tx-garp-packets?           yang:counter64
|   +--ro tx-gna-packets?            yang:counter64
+--rw untagged-access-interfaces
+--rw tagged-access-interfaces
+--rw double-tagged-access-interfaces
+--ro access-interfaces
| +--ro access-interface* [interface-index]
|   +--ro interface-index  -> ../state/interface-index
|   +--ro state
|     +--ro interface-index? uint32
|     +--ro if-name?         cml-data-types:cml_line_t
|     +--ro access-counters
|       +--ro rx-arp-discard-packets?    yang:counter64
|       +--ro tx-arp-discard-packet?      yang:counter64
|       +--ro rx-arp-request-packets?     yang:counter64
|       +--ro rx-arp-reply-packets?       yang:counter64
|       +--ro tx-arp-request-packet?      yang:counter64
|       +--ro tx-arp-reply-packet?        yang:counter64
|       +--ro rx-nd-discard-packets?      yang:counter64
|       +--ro tx-nd-discard-packet?       yang:counter64
|       +--ro rx-neighbor-solicitation-packets? yang:counter64
|       +--ro rx-neighbor-advertisement-packets? yang:counter64
|       +--ro tx-neighbor-solicitation-packet? yang:counter64
|       +--ro tx-neighbor-advertisement-packet? yang:counter64
|       +--ro rx-gratuitous-arp-packets?   yang:counter64
|       +--ro tx-gratuitous-arp-packets?   yang:counter64

```

```

|      +--ro rx-gratuitous-na-packets?      yang:counter64
|      +--ro tx-gratuitous-na-packets?      yang:counter64
|      +--ro rx-data-packets?               yang:counter64
|      +--ro rx-data-bytes?                 yang:counter64
|      +--ro tx-data-packets?               yang:counter64
|      +--ro tx-data-bytes?                 yang:counter64
+--rw vtep-entries
| +--rw vtep-entry* [address]
|   +--rw address  -> ../config/address
|   +--rw config
|   | +--rw address?   inet:ipv4-address
|   | +--rw description? cml-data-types:cml_line_t
|   | +--rw redund-type? ipi-vxlan-types:vxlan_vtep_redund_type_t
|   +--ro state
|       +--ro address?   inet:ipv4-address
|       +--ro description? cml-data-types:cml_line_t
|       +--ro redund-type? ipi-vxlan-types:vxlan_vtep_redund_type_t
+--rw interfaces
    +--rw interface* [name]
        +--rw name      -> ../config/name
        +--rw config
        | +--rw name?    -> /ipi-interface:interfaces/interface/name
        +--ro state
            +--ro name?  -> /ipi-interface:interfaces/interface/name

```

rpcs:

```

+---x clear-nvo-vxlan-dynamic-mac-address-table {feature-list:HAVE_VXLAN}?
+---x clear-nvo-vxlan-dynamic-mac-address-table-vnid {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w vxlan-identifier  uint32
|   +---w mac-address?      cml-data-types:cml_mac_addr_t
+---x clear-nvo-vxlan-tunnels {feature-list:HAVE_VXLAN}?
+---x clear-nvo-id-vxlan-tunnels-destip {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w destination-vtep-ip  inet:ipv4-address
+---x clear-nvo-vxlan-mac-stale-entries {feature-list:HAVE_VXLAN}?

```

```

| +---w input
|   +---w vxlan-identifier?  uint32
+---x clear-vxlan-untagged-access-port-counters {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w interface-name  string
+---x clear-vxlan-access-port-counters-all {feature-list:HAVE_VXLAN}?
+---x clear-vxlan-network-port-counters {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w destination-vtep-ip  inet:ipv4-address
+---x clear-vxlan-network-port-counters-all {feature-list:HAVE_VXLAN}?

```

notifications:

```

+---n vxlan-tunnel-status-change-notification
  +--ro severity?          cml-data-types:cml_notif_severity_t
  +--ro eventClass?        cml-data-types:cml_notif_class_t
  +--ro destination-vtep-ip?  inet:ipv4-address
  +--ro tunnel-status?      ipi-vxlan-types:vxlan_tunnel_status_t

```

module: ipi-watchdog

```

+--rw watchdog {feature-list:HAVE_PSERVD}?
  +--rw config
  | +--rw watchdog-disabled?  empty
  | +--rw keepalive-interval? uint16
  +--ro state
  | +--ro watchdog-disabled?  empty
  | +--ro keepalive-interval? uint16
  | +--ro watchdog-status?    ipi-watchdog-types:watchdog_status_t
  | +--ro all-processes-status? ipi-watchdog-types:watchdog_global_processes_status_t
  +--rw software-modules
    +--rw software-module* [name]
      +--rw name    -> ../config/name
      +--rw config
      | +--rw name?          ipi-watchdog-types:watchdog_module_name_t
      | +--rw module-watchdog-status-disabled  empty
      +--ro state

```

```

| +--ro name?          ipi-watchdog-types:watchdog_module_name_t
| +--ro module-watchdog-status-disabled  empty
+--rw process
  +--ro state
    +--ro process-name?  ipi-watchdog-types:watchdog_module_name_t
    +--ro process-status? ipi-watchdog-types:watchdog_process_status_t
    +--ro start-time?    yang:date-and-time
    +--ro down-reason?   cml-data-types:cml_line_t

```

rpcs:

```

+---x clear-core-dump {feature-list:HAVE_PSERVD,feature-list:HAVE_ZEBOS_CORE_ANALYSER}?
  +---w input
    +---w core-dump  string

```

notifications:

```

+---n protocol-module-down {feature-list:HAVE_PSERVD}?
| +--ro severity?    cml-data-types:cml_notif_severity_t
| +--ro eventClass?  cml-data-types:cml_notif_class_t
| +--ro name?        ipi-watchdog-types:watchdog_module_name_t
| +--ro process-name? ipi-watchdog-types:watchdog_module_name_t
| +--ro down-reason? cml-data-types:cml_line_t
+---n protocol-module-restarted {feature-list:HAVE_PSERVD}?
  +--ro severity?    cml-data-types:cml_notif_severity_t
  +--ro eventClass?  cml-data-types:cml_notif_class_t
  +--ro name?        ipi-watchdog-types:watchdog_module_name_t
  +--ro process-name? ipi-watchdog-types:watchdog_module_name_t
  +--ro start-time?  yang:date-and-time

```

module: ipi-xstp

```

+--rw xstp
  +--rw interfaces
  | +--rw interface* [name]
  |   +--rw name      -> ../config/name
  |   +--rw config
  |   | +--rw name?    -> /ipi-interface:interfaces/interface/name

```

```

| | +--rw hello-time?          uint8
| | +--rw port-configuration?   ipi-xstp-types:xstp_port_edge_t
| | +--rw enable-automatic-edge-detection? empty
| | +--rw bpdu-guard?           ipi-xstp-types:xstp_bpdu_t
| | +--rw bpdu-filter?          ipi-xstp-types:xstp_bpdu_t
| | +--rw enable-root-guard?    empty
| | +--rw link-type?            ipi-xstp-types:xstp_link_type_t
| | +--rw enable-restricted-domain-role? empty
| | +--rw enable-restricted-role? empty
| | +--rw enable-restricted-tcn? empty
| +--ro state
| | +--ro name?                 -> /ipi-interface:interfaces/interface/name
| | +--ro hello-time?          uint8
| | +--ro port-configuration?   ipi-xstp-types:xstp_port_edge_t
| | +--ro enable-automatic-edge-detection? empty
| | +--ro bpdu-guard?           ipi-xstp-types:xstp_bpdu_t
| | +--ro bpdu-filter?          ipi-xstp-types:xstp_bpdu_t
| | +--ro enable-root-guard?    empty
| | +--ro link-type?            ipi-xstp-types:xstp_link_type_t
| | +--ro enable-restricted-domain-role? empty
| | +--ro enable-restricted-role? empty
| | +--ro enable-restricted-tcn? empty
| +--rw mstp
| | +--rw mst-instances
| |   +--rw mst-instance* [instance-id]
| |     +--rw instance-id  -> ../config/instance-id
| |     +--rw config
| |       | +--rw instance-id?      -> /ipi-network-instance:network-instances/network-instance/ipi-
bridge:bridge/stp/mstp/mst-instances/mst-instance/instance-id
| |       | +--rw enable-instance-restricted-role? empty
| |       | +--rw enable-instance-restricted-tcn? empty
| |       +--ro state
| |         +--ro instance-id?      -> /ipi-network-instance:network-instances/network-instance/ipi-
bridge:bridge/stp/mstp/mst-instances/mst-instance/instance-id
| |         +--ro enable-instance-restricted-role? empty
| |         +--ro enable-instance-restricted-tcn? empty
| +--rw customer-spanning-tree {feature-list:HAVE_PROVIDER_BRIDGE}?

```

```

|   +--rw config
|   |   +--rw bridge-priority?   uint16
|   |   +--rw max-age?           uint8
|   |   +--rw hello-time?        uint8
|   |   +--rw forward-delay?     uint8
|   |   +--rw transmit-hold-count? uint8
|   +--ro state
|   |   +--ro bridge-priority?   uint16
|   |   +--ro max-age?           uint8
|   |   +--ro hello-time?        uint8
|   |   +--ro forward-delay?     uint8
|   |   +--ro transmit-hold-count? uint8
|   +--rw customer-edge
|   |   +--rw config
|   |   |   +--rw port-priority? uint8
|   |   |   +--rw path-cost?     uint32
|   |   +--ro state
|   |   |   +--ro port-priority? uint8
|   |   |   +--ro path-cost?     uint32
|   +--rw provider-edge
|   +--rw vlans
|   |   +--rw vlan* [svlan-id]
|   |   |   +--rw svlan-id  -> ../config/svlan-id
|   |   |   +--rw config
|   |   |   |   +--rw svlan-id?   uint16
|   |   |   |   +--rw port-priority? uint8
|   |   |   |   +--rw path-cost?   uint32
|   |   |   +--ro state
|   |   |   |   +--ro svlan-id?   uint16
|   |   |   |   +--ro port-priority? uint8
|   |   |   |   +--ro path-cost?   uint32
+--rw mstp
+--rw debug
+--rw config
| +--rw options?  ipi-xstp-types:mstp_debug_t
+--ro state

```

```

+--ro options?          ipi-xstp-types:mstp_debug_t
+--ro terminal-debug-status? ipi-xstp-types:mstp_debug_t

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:

```

+--rw stp
  +--rw config
    | +--rw ageing-time?          ipi-xstp-types:xstp_ageing_time_t
    | +--rw enable-cisco-interoperability? empty
    | +--rw forwarding-delay?      uint8
    | +--rw hello-time?           uint8
    | +--rw max-age?              uint8
    | +--rw max-hops?             uint8
    | +--rw bridge-priority?      uint32
    | +--rw transmit-hold-count?   uint8
  +--ro state
    | +--ro ageing-time?          ipi-xstp-types:xstp_ageing_time_t
    | +--ro enable-cisco-interoperability? empty
    | +--ro forwarding-delay?      uint8
    | +--ro hello-time?           uint8
    | +--ro max-age?              uint8
    | +--ro max-hops?             uint8
    | +--ro bridge-priority?      uint32
    | +--ro transmit-hold-count?   uint8
  +--rw global
    | +--rw config
    | | +--rw enable-bpdu-filter?    empty
    | | +--rw enable-bpdu-guard?     empty
    | | +--rw enable-error-disable-timeout? empty
    | | +--rw force-version?         uint8
    | | +--rw path-cost-method?      ipi-xstp-types:xstp_path_cost_method_t
    | +--ro state
    | | +--ro enable-bpdu-filter?    empty
    | | +--ro enable-bpdu-guard?     empty
    | | +--ro enable-error-disable-timeout? empty
    | | +--ro force-version?         uint8
    | | +--ro path-cost-method?      ipi-xstp-types:xstp_path_cost_method_t

```

```

| +--rw bridge-admins
| | +--rw bridge-admin* [bridge-type disable-spanning-tree]
| |   +--rw bridge-type      -> ../config/bridge-type
| |   +--rw disable-spanning-tree -> ../config/disable-spanning-tree
| |   +--rw config
| |     | +--rw bridge-forwarding?   ipi-xstp-types:xstp_bridge_forward_t
| |     | +--rw bridge-type?        ipi-xstp-types:xstp_bridge_type_t
| |     | +--rw disable-spanning-tree? empty
| |     +--ro state
| |       +--ro bridge-forwarding?   ipi-xstp-types:xstp_bridge_forward_t
| |       +--ro bridge-type?        ipi-xstp-types:xstp_bridge_type_t
| |       +--ro disable-spanning-tree? empty
| +--rw bridge-shutdowns
|   +--rw bridge-shutdown* [enable-shutdown]
|     +--rw enable-shutdown -> ../config/enable-shutdown
|     +--rw config
|       | +--rw bridge-forwarding? ipi-xstp-types:xstp_bridge_forward_t
|       | +--rw enable-shutdown?   empty
|       +--ro state
|         +--ro bridge-forwarding? ipi-xstp-types:xstp_bridge_forward_t
|         +--ro enable-shutdown?   empty
+--rw mstp
  +--rw config
  | +--rw region-name?   string
  | +--rw revision-number? uint16
  +--ro state
  | +--ro counters
  | | +--ro topology-changes-count?   uint32
  | | +--ro total-topology-changes-count? uint32
  | | +--ro max-age-count?            uint32
  | +--ro region-name?               string
  | +--ro revision-number?            uint16
  | +--ro topology-change-detected?   boolean
  | +--ro last-topology-change?       yang:date-and-time
  | +--ro topology-change-initiator?  uint16
  | +--ro topology-change-last-received-from? string

```

```

| +--ro cist-bridge-id?          string
| +--ro cist-designated-root?    string
| +--ro cist-regional-root?      string
| +--ro cist-designated-bridge?  string
| +--ro cist-port-root-id?       uint16
| +--ro external-root-path-cost? uint32
| +--ro internal-root-path-cost? uint32
+--rw mst-instances
  +--rw mst-instance* [instance-id]
    | +--rw instance-id  -> ../config/instance-id
    | +--rw config
    | | +--rw instance-id?  ipi-xstp-types:mstp_instance_t
    | | +--rw bridge-priority? uint32
    | | +--rw vlan-id?      cml-data-types:cml_range_t
    | +--ro state
    | | +--ro instance-id?      ipi-xstp-types:mstp_instance_t
    | | +--ro bridge-priority?  uint32
    | | +--ro vlan-id?          cml-data-types:cml_range_t
    | | +--ro bridge-id?        string
    | | +--ro designated-root-priority? uint16
    | | +--ro designated-root-address?  yang:mac-address
    | | +--ro internal-root-path-cost?  uint32
    | | +--ro root-port-ifindex?  uint32
    | | +--ro topology-change-detected? boolean
    | | +--ro topology-change-initiator? uint16
    | | +--ro topology-change-last-received-from? string
    | | +--ro last-topology-change?  yang:date-and-time
    | | +--ro topology-changes?      uint32
    +--rw interfaces
      +--rw interface* [name]
        +--rw name  -> ../config/name
        +--rw config
        | +--rw name?  -> /ipi-interface:interfaces/interface/name
        | +--rw path-cost?  uint32
        | +--rw port-priority? int16
        +--ro state

```

```

|   +--ro counters
|   |   +--ro config-bpdu-sent?    uint32
|   |   +--ro config-bpdu-received? uint32
|   |   +--ro tcn-bpdu-sent?      uint32
|   |   +--ro tcn-bpdu-received?  uint32
|   |   +--ro similar-bpdu-count?  uint32
|   +--ro name?                    -> /ipi-interface:interfaces/interface/name
|   +--ro path-cost?               uint32
|   +--ro port-priority?           int16
|   +--ro port-id?                 uint16
|   +--ro internal-root-path-cost? uint32
|   +--ro designated-root-priority? uint16
|   +--ro designated-root-address?  yang:mac-address
|   +--ro designated-bridge-priority? uint16
|   +--ro designated-bridge-address? yang:mac-address
|   +--ro designated-port-priority? uint16
|   +--ro designated-port-num?      uint16
|   +--ro designated-cost?          uint16
|   +--ro hello-time-remaining?     uint32
|   +--ro forward-time-remaining?   uint32
|   +--ro message-age-time-remaining? uint32
|   +--ro port-state?               string
|   +--ro port-role?                ipi-xstp-types:mstp_port_role_t
+--rw te-mst-instance
  +--rw config
  |   +--rw vlan-id?                cml-data-types:cml_range_t
  |   +--rw disable-spanning-tree? empty
  +--ro state
  |   +--ro vlan-id?                cml-data-types:cml_range_t
  |   +--ro disable-spanning-tree? empty
  |   +--ro bridge-id?              string
  |   +--ro designated-root-priority? uint16
  |   +--ro designated-root-address? yang:mac-address
  |   +--ro internal-root-path-cost? uint32
  |   +--ro root-port-ifindex?      uint32
  |   +--ro topology-change-detected? boolean

```

```

| +--ro topology-change-initiator?      uint16
| +--ro topology-change-last-received-from? string
| +--ro last-topology-change?           yang:date-and-time
| +--ro topology-changes?              uint32
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name? -> /ipi-interface:interfaces/interface/name
    +--ro state
      +--ro counters
        | +--ro config-bpdu-sent?      uint32
        | +--ro config-bpdu-received?  uint32
        | +--ro tcn-bpdu-sent?         uint32
        | +--ro tcn-bpdu-received?     uint32
        | +--ro similar-bpdu-count?    uint32
        +--ro name?                    -> /ipi-interface:interfaces/interface/name
      +--ro port-id?                   uint16
      +--ro internal-root-path-cost?   uint32
      +--ro designated-root-priority?  uint16
      +--ro designated-root-address?   yang:mac-address
      +--ro designated-bridge-priority? uint16
      +--ro designated-bridge-address? yang:mac-address
      +--ro designated-port-priority?  uint16
      +--ro designated-port-num?       uint16
      +--ro designated-cost?           uint16
      +--ro hello-time-remaining?      uint32
      +--ro forward-time-remaining?    uint32
      +--ro message-age-time-remaining? uint32
      +--ro port-state?                string
      +--ro port-role?                 ipi-xstp-types:mstp_port_role_t

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge/ipi-bridge:bridge-ports/ipi-bridge:interface:

```

+--rw mstp-port
  +--rw port-bridge
    +--rw config
      | +--rw path-cost?    uint32

```

```

| +--rw port-priority? int16
+--ro state
  +--ro counters
    | +--ro config-bpdu-sent? uint32
    | +--ro config-bpdu-received? uint32
    | +--ro tcn-bpdu-sent? uint32
    | +--ro tcn-bpdu-received? uint32
    | +--ro source-mac-count? uint32
    | +--ro similar-bpdu-count? uint32
    | +--ro total-src-mac-count? uint32
  +--ro path-cost? uint32
  +--ro port-priority? int16
  +--ro link-type? ipi-xstp-types:xstp_link_type_t
  +--ro bpdu-filter? ipi-xstp-types:xstp_bpdu_t
  +--ro current-bpdu-filter? string
  +--ro bpdu-guard? ipi-xstp-types:xstp_bpdu_t
  +--ro current-bpdu-guard? string
  +--ro root-guard? string
  +--ro current-root-guard? string
  +--ro port-edge? string
  +--ro current-port-edge? string
  +--ro cist-path-cost? uint32
  +--ro cist-priority? uint32
  +--ro cist-port-id? uint16
  +--ro cist-port-number? uint16
  +--ro cist-root? string
  +--ro cist-regional-root? string
  +--ro cist-designated-bridge? string
  +--ro cist-designated-root-path-cost? uint32
  +--ro cist-designated-external-root-path-cost? uint32
  +--ro cist-designated-internal-root-path-cost? uint32
  +--ro cist-designated-port-id? uint32
  +--ro cist-hello-time-remaining? uint32
  +--ro cist-forward-time-remaining? uint32
  +--ro cist-message-age-time-remaining? uint32
  +--ro cist-topology-change-time-remaining? uint32

```

```

+--ro cist-port-state?          string
+--ro cist-port-role?          string
+--ro cist-forward-transitions? uint32
+--ro service-vlan-id?         uint16 {feature-list:HAVE_PROVIDER_BRIDGE}?

```

rpcs:

```

+---x mstp-terminal-debug-on {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w terminal-debug-options ipi-xstp-types:mstp_debug_t
+---x mstp-terminal-debug-off {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w terminal-debug-options ipi-xstp-types:mstp_debug_t
+---x clear-spanning-tree-detected-protocols-per-bridge {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w bridge-id string
+---x clear-spanning-tree-detected-protocols-per-interface {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w interface-name string
+---x clear-spanning-tree-statistics-per-instance-and-bridge {feature-list:HAVE_MSTPD,feature-
list:HAVE_PROVIDER_BRIDGE_OR_HAVE_B_BEB}?
| +---w input
|   +---w bridge-id string
|   +---w mst-instance-id ipi-xstp-types:mstp_instance_spbm_type_t
+---x clear-spanning-tree-statistics-per-interface-vlan-and-bridge {feature-list:HAVE_MSTPD,feature-
list:HAVE_PROVIDER_BRIDGE_OR_HAVE_B_BEB}?
| +---w input
|   +---w bridge-id string
|   +---w interface-name string
|   +---w vlan-id uint16
+---x clear-spanning-tree-statistics-per-interface-and-bridge {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w bridge-id string
|   +---w interface-name string
+---x clear-spanning-tree-statistics-per-bridge {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w bridge-id string
+---x clear-spanning-tree-statistics-per-vlan-and-bridge {feature-list:HAVE_MSTPD}?

```



```

| +---w input
|   +---w bridge-id   string
|   +---w vlan-id     uint16
+---x clear-spanning-tree-statistics-per-interface-instance-and-bridge {feature-list:HAVE_MSTPD}?
| +---w input
|   +---w bridge-id     string
|   +---w interface-name string
|   +---w mst-instance-id ipi-xstp-types:mstp_instance_spbm_type_t
+---x mstp-snmp-restart {feature-list:HAVE_SNMP}?

```

notifications:

```

+---n bridge-new-root-notification
  +--ro severity?   cml-data-types:cml_notif_severity_t
  +--ro eventClass? cml-data-types:cml_notif_class_t
  +--ro message?    string

```